

APPENDIX A: DNA SEQUENCES

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>RXA00212
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>RXA00213-upstream
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>RXA00213
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>RXA00214
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>RXA00313-upstream
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>RXA00313
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>RXA00361
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>RXA00407

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>RXA00414-upstream

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>RXA00414

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>RXA00415-upstream

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>RXA00460

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>RXA00538

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>RXA00542

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>RXA00542-downstream

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>RXA00543-upstream

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>RXA00543

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>RXA00543-downstream

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>RXA00544-upstream

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>RXA00544

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>RXA00562
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>RXA00625
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>RXA00670
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>RXA00671
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>RXA00694
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>RXA00696
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>RXA00711

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>RXA00717

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>RXA01279
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>RXA01305-downstream
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>RXA01334
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>RXA01334-downstream
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>RXA01335-upstream
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>RXA01335
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>RXA01335-downstream
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>RXA01343
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>RXA01343-downstream
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>RXA01353-upstream
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>RXA01353
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>RXA01353-downstream
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>RXA01356-upstream
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>RXA01356
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>RXA01356-downstream
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>RXA01363-upstream
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>RXA01363
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>RXA01374-upstream

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>RXA01374

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>RXA01423-upstream

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>RXA01423

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>RXA01423-downstream

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>RXA01424-upstream

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>RXA01424

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>RXA01424-downstream

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>RXA01453-upstream

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>RXA01453

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>RXA01453-downstream

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>RXA01480-upstream

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>RXA01480

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>RXA01480-downstream

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>RXA01481-upstream

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>RXA01481

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>RXA01481-downstream
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>RXA01487-upstream
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>RXA01487
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>RXA01487-downstream
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>RXA01495-upstream
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>RXA01495
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>RXA01495-downstream
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>RXA01563
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>RXA01563-downstream
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>RXA01568
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>RXA01568-downstream
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>RXA01581-upstream
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>RXA01581
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>RXA01581-downstream
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>RXA01594-upstream
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>RXA01594
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>RXA01637-upstream
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>RXA01637
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>RXA01661-upstream
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>RXA01661
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>RXA01682
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>RXA01682-downstream
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>RXA01683-upstream
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>RXA01876
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>RXA02043-upstream
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>RXA02043

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>RXA02145-upstream

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>RXA02145

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>RXA02179-upstream

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>RXA02179

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>RXA02190

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>RXA02241-upstream

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>RXA02241

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>RXA02293-upstream

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>RXA02293

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AATGCCGCATCTCCTTTTTTATTCCTAAATATGAATACGCATTATTTTCAATCTTTTTGT
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>RXN03148
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AGTCAATTAGGAATTACGCTAACCAGGTTTGATCATCGGGTGGGTGGTGAAGGATCTGTC
CGGGCTTTACTAGAACCAAGTGATCGGTAAACCTTTTAGTTTCGGCTATTAGCAGTACA
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GCTTCC

>RXN03148-downstream
TAAGAGCTATAGTATCGTCAATA

>RXN03163-upstream
GCACTGATTTGGACCTTCCTTGGGAGGCTATCGACCGCGTTGATGAACTTCGCGCAGCCC
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>RXN03163
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ACTGCGCGGGCGTCATGGCAGATTGCTCCCGGAGATGATTGGGCGCTGGCTTTGGCTTCT
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CACGCCAGGGAAGTGCTGACCACGCGTTCCAGTTTGGGAAGCAAGCTCCTTGATTATTGCG
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 GGCTACGTGCCAACCTTGGCGTGTGGAAACTGCCGCACCCAGCGCGGTGCCGGCAC TGT
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 GCTGTGGTGCTGGGAACGGAACGCACAGCAGAAGAACTGGGCCGCGCGTTCCCGTCTGTG
 CGGGTAATTACCTCTGGTGGCAACAAGGTGGTGGATTTCGGTGGAACCGAGCCAGCATT
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>RXN03166-upstream

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>RXN03166

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 CGCCAATTAGAGCAGATTGGCCAGCAACTTGGTTGGGCAAAGAAGGAGCAGGTTGCAGGC
 ACCGCCAGCCCTGACATCATTCACCAATCCTTGCTCACCGGTCTGTTCTCGCAAATCGGT
 TCCCGTGATGGTGAGAGCAAAGAATTCAGTGGAGCCAGAGGTACCAAATTCCTTGGTCTTT
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 ACCTCACGTTTGTGGGCTCGCGATGTAGCCAAGATTGAACCAGAGTGGGTGGAAAAAGCA
 GCCGGCCCATTTGCTCAAGCACCAATACTCTGAACCGTATTGGTCCCTCAAAGCGTGCGGC
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>RXN03166-downstream

TGATCCCGTGGCTGCGCGCGATA

>RXN03175

GTCCGCGCAAGCGAAAAAGACACCGCCACCGCACTGCAACCCGCTTAGATAACGGATGG

CACTACATTGGTGCCCCAGCAGCTGCCAAGGGACGTGCCGGTGTTCGGCATTTTGTCTAGG
CATGAACTTGAAGATGTGAACATCGGTTTTGGATCTTTCTTGACTCCGGCCGCTACATT
GAAGCAACCATCAAAGACACCACCTGGATGTGCCAGTAACCGTGGCATCTCTTTACCTC
CCCTCAGGTTTCAGCGGGCACCAGCAAGCAGGATGAAAAGTACCGCTTCTCGATGAATTC
GAAGGGTTCTTGGACCAGCGCGCTAAAGAACGCTCCACATGGTCATCGGTGGCGACTGG
AACATCTGCCACCGCCGCGAAGACCTGAAAACTGGAAAACCAACCAAAAGAAATCCGGT
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GACGGCCCTTACACTTGGTGGACCTACCGCGGAAAAGCCTTCGACACCGCGCGCGGATGG
CGCATCGACTACCAAGCAGCAACCGCAGCGATGCTCGAACGCGCAGAACGCTCCTGGGTA
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TCC

>RXN03175-downstream
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>RXN01389tr
CAGGACGGCGATAAGCTCGCTGGCCGCCACGGTAACAAGGGTGTTCGGTAAAATTTTG
CCTCAGAAAGATATGCCATTCCTTCCAGACGGCACTCCTGTTGACATCATCTTGAACACC
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GGTGCGTCAAACGAAGAGCTCGCAGGCCTGCTCGCTAATTCACGTCCAAACCGCGACGGC
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TACCCGTACCCGGTTTCCATCGGCTACATGTACATGCTGAAGCTGCACCACCTCGTTGAC
GAGAAGATCCACGCACGTTCCACTGGTCTTACTCCATGATTACCCAGCAGCCACTGGGT
GGTAAAGCACAGTTTCGGTGGACAGCGTTTCGGCGAAATGGAGGTGTGGGCAATGCAGGCA
TACGGCGCTGCCTACACACTTCAGGAGCTGCTGNCCA

APPENDIX B: AMINO ACID SEQUENCES

> RXA00050 (1-2196, translated) 732 residues
 MSNTENVNGD VEQPNNVISS ESQETPQGDS ASADFALETP TNTVEDAPAS EGSEIEITRVA
 DTSEDADSAD ADNASNINE NEDSSEGANQ PSNESSSTEAKSGFDALGLP ERVLDVAVRKV
 GYETPSPIQA QTIPILMEGQ DVVGLAQTGT GKTAALFALPI LARIDKSVRS PQALVLAPTR
 ELALQVADSF QSFADHVGGL NVLPYIGGQA YGIQLSGLRR GAHIVVGTGP RIIDHLEKGS
 LDISGLRFLV LDEADEMLNM GFQEDVERIL EDTPDEKQVA LFSATMPNGI RRLSKQYLNN
 PAEITVKSET RTNTNITQRF LNVHRNKMD ALTRILEVTE FEAMIMFVRT KHETEEVAEK
 LRARGFSAAA INGDIQAQR ERTVDQLKDG RLDILVATDV AARGLDVERI SHVLNFDIPN
 DTESYVHRIG RTGRAGRTGE AILFVTPRER RMLRSIERAT NAPLHEMELP TVDQVNDFRK
 VKFADSITKS LEDKQMDLFR TLVKEYSQAN DVPLEDIAAA LATQAQSGDF LLKELPPERR
 ERNDRRRDRD FDRGRGRGRD RDRGRGRGRD SRFDRDDENL ATYRLAVGKR QHIRPGAIVG
 ALANEGGLNS KDFGRITIAA DHTLVLEPKD LPQSVLDNLR DTRISGQLIN IERDSGGRPP
 RRFRERDDRG RGGFRGRDRD RGGGRGRDRD RGSRGGRGRG RDRDRGRGRG GFRGRDRDRD
 RGGRGGRGRG RD

> RXA00060 (1-2457, translated) 819 residues
 VTEKTDQTLMLIDGHSMAFR AFFALPAENF STSGGQATNA VYGFLSMLST LLKDEQPTHV
 AVAFDVGRKT FRTDMFPAYK AQREATPPEF KGQVEILKEV LSTLGITTIE KIDFEADDVI
 ATLSVAAPKL GFKTILVTGD RDSFQLVNDT TTVLYPMKGV SVLHRETPEA VEEKYGLTPR
 QYPEFAALRG DPSDNLPNIP GVGEKTATKW IAQYETLDNL LDHADEIKGK VGASLRERIE
 QVRMNRKLTE MVKDLELPLG PDDFEMKPVQ VAEVAAKFDD LEFGTNLRER VLAVVKAEGS
 AAPVEEVEAE QVVVDTSQSLA QWLPARAGQA LALALAGVAK PAAGDTYALA IADTKRHAHL
 VDVAIDSAED EKALATWLAS EDPKMLHGAK AAYHMLAGRG FELHGVVHDT AIAAYLLRPG
 QRTYELADVY QRHLQRQLST NDNGGQLTLL DAADDQSLVD DVIAILELSE ELTKQLQEIQ
 AFELYHDLEI PLSGILARME AIGIAVDVAT LEEQLKTFIG QVAQEEEEAR ELAEDPTLNL
 SSPKQLQVVL FETFGMPKTK KTKTGYSTAA AEIEALAIKN PHPFLDHLLA HRQYQKMKT
 LEGLIREVAP DGRIHTTFNQ TVASTGRLLS TDPNLQNIPI RTEAGRKIRS GFVVGEGYET
 LLTADYSQIE MRVMAHLSQD PGLIEAYREG EDLHNYVGSK VFNVPIDGVT PELRRQVKAM
 SYGLVYGLSA FGLSQQLSIP AGEAKQIMES YFERFGGVQR YLREIVEEAR KAGYTETLFG
 RRRYLPELTS DNRVARENAE RAALNAPIRE LPQTSSRP

> RXA00061 (1-210, translated) 70 residues
 MIRVDRSLKE AAVKSRVLLQ VHDELVEVA AGELEQVREI LEREMDNAIK LSVPLEVSAG
 DGVNWDAAAH

> RXA00066 (1-813, translated) 271 residues
 VTDPLSAALD SGRINHAYLF SGPRGCGKTS SARILARSLN CVEGPTSTPC GVCNSCVALA
 PGGPGTLDVT ELDAASNNGV DDMRELRELA NYAPAESRYR VFIIDEAHMI STQGFNALLK
 IVEEPPAHLI FIFATTEPDK MIGTIRSRTY NYPFRLLTPG DMRKVLKNAV DGEGVHVDDS
 VYPLVIRAGG GSPRDSLSIL DQLIAGSGPE GLTYERALPL LGVTSFTLID DSIHALASKD
 NASMFTTIDN VIEEGLEPRR FTIDLPSDPL R

> RXA00095 (1-2289, translated) 763 residues
 MNTSPFTPGS PDLIDGLNEQ QRAAVEHIGS PLLIVAGAGS GKTAVLTRRI AYLMRYRGVH
 PQQILAITFT NKAAAEMRER VSQLVGPVAV RMWVATFHSV CVRILRQQAQ LVEGLNTNFT
 IYDSDSRRL LTMIAKDLEL DIKKFSARTL LGAISNLKNE LVTPQEALAD AERTHNPYET
 VVARAFSEYQ SRLRRANAVD FDDLIGETVR IFREHPPVAE YYRRFRFRHVL IDEYQDTNHA
 QYELISTLVG KPDQDPSELC VVGDSQSIY AFRGATIRNI EEFERDFSNA RTILLEQNYR
 STQTILSAAN AVISQENRR PKNLWTALGE GEQIIGYVAD NEHDEARFIA SEIDNLVDHG
 MSYSDIAIMY RTNNSSRALE DVFMRTGVPI KVVGGTKFYE RKEIRDIAY LRVLENPDDT
 VNLRRRIINTP KRGIGDRAQA FIALHSENNQ ISFGQALLDA ALGKVDLLGA RGKNAAIKFN
 ELFDALRSEL PTMVNEVTGL PDIGQVISRI LDITGYKAEL EASNDPQDGA RLDNLNELVS
 VAREFSSDAA NRMVNEVPEG EAQPGSLQAF LERVSLVADA DQIPDSNGV VTLMTLHTAK
 GLEFPVIFLT GWEDGQFPHL RSLGDAKELA EERRLAYVGI TRARKRLYMT RAMLRSSWGN
 PVTNPPSRFL QEVPAELIDW RREEPQMSSA WAPRPTRSIP TKTRTNKQL DLSVGDRVNH
 DKYGLGTVLS SDGSGPRATV TIDFGSSGKV RLMLLGGVPM EKL

> RXA00103 (1-4560, translated) 1520 residues
 MAKSIILSRFR PQVAEWFDRV FASPTPVQEG TWEAVSKGKN ALVVAPTGS KTLAAFLWAL

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DSLTEQTGQQ VLDTGTPVPV RGGKVKVLYI SPLKALGVDV ENNLRAPLTG IARTASRMGL
DVPNITVAVR SGGTPSAERA RQVRKPAHIL ITTPESAYLM LTKAGATLS DVDVVIIDEI
HAMAGTKRGV HLAALTLELE KLVGRPVQRV GLSATVRPLE TVAGFLGGGR PVEIVAPPAE
KKWDLTVTVF VEDMSDLFVQ EPGSTIGELV MDDPLGITGE SALPTQGSIW PHIEQQVYNQ
VMSAKSTIVF VNSRRSAERL TSRLNEIWAM EHDPELSLPQ LRRDPAQIMS SADVAGKAPQ
VIARAHHGSV SKDERATTET MLKEGRRLAV ISTSSLELGI DMGAVDLVIQ VESPPSVASG
LQRVGRAGHT VGATSIGSFY PKHRSDLVQT AVTVQRMKEG LIEEIHVPKN ALDVLAAQQT
AAVSIKDVQV DEWYETIRKA YPYRDLAREV FDSVIDLVSG VYPSTDFAEK KPRVVYDRVS
GVLEGRPGSQ RAVVTSGGTI PDRGMFGVFL VGDGPRRVGE LDEEMVYESR VGDVFTLGAS
SWRIEEITRD QVLVTPAPGH TGRLPFWTGD AAGRPAELGK ALGAFRRSTL TDPSSSGLEG
WAHDNLIAFL QEQEESTGVL PDEKTLVLER FKDELGDWRI VLHTPYGRGV NAAWALAVGA
KIAEETGMDA QAVAGDDGIV LRLPEGDEDP SAALFMFEAE EIETLVTEQV GNSALFASRF
RECAARALLL PRRNPGKRAP LWQQRQRAAQ LLDVARKYPS FPIILETVRE CLQDVYDLPA
LKNLIEDLQL RKVRIAEVTT QQPSPFASAL LFNYTGAFMY EGDSPLAEKR AAALALDPAL
LAKLLGEVEL RQLLDPDIIA EVHQQLRQG DRAARNNEEL ADSLRILGPI PLDELGEHIT
FENPDLEDRA MTVRINGREH LAQVLDAPLL RDALGVPVPP GVPAQVETIT DALEQLVNRW
VRTRGPFTAN DLAEAFGLGI ATAITALQSA PVIEGRYRQG VDVQEYCATE VLSIIRRRSL
AAARKQTRPV SQSAFARFLL DWQQIAPVGA TPELRGVDGT YTVIEQLAGV RLPASAWEDL
VLPRRVADYS PIHLDELTSN GEVLIVGAGQ AGSRDPWISL LPVDYAAQLV GEASTSMSPL
QDAVLDQLRA GGAFLEFSDIL EENFGYTAAQ LQEA MWGLVE AGLVSPDSFA PIRARLASGT
TAHRAKRRPA RSRLRTRTSF ASDVPPDMRG RWTL SVQPAD ATSRVAHGE GWLDRYGVLT
RGSVVAEDIV GGFALAYKVL SGFEESGKAM RGYFIEGLGA AQFSTPAID RLRGHDDSPD
VEGWVSGATD PDVYLIAAAD PANPYGAALP WPEQGPSRAA GAMVVLCDGL LLAHLTRGGR
TLTVFSDNIP KIATALITYE RLTVEKINGD NVFDSPLLEQ FRKHGATITP KGMFRFRPPVA
RETPSDTLPT RTFRGGFGRR

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> RXA00157 (1-1263, translated) 421 residues
ARIVAEQREA EAVEKKVQTE AAIAANSEQL NVLTTNRSTL VAQRDGAERN LAIARAQADN
LQGQRAEYEE FQQAQEQARIQ AEAEQAQAAE EKRRADEAAA QAAAEAEQAAA QQAQAAEEAQ
AAQAAETAQA QAAQAAETQA AQAAQAQAEA NDRAAAQORA AEQAQAAEQQA QREADAQAAN
DAQAALREQ ALTAASIAAA ALIAASQSSH ATTQNPYPTD EDADPTDIAD IQGPTQPGTG
ESGDSQSNSS DNDSTGNDST GSDSSDSOSS GNDSSSEVISG DRSAQIETVI ARAMSQGLVQ
YAWGGGNANG PTLGIRDGGV ADSYGDYNKV GFDCSGLTLY AFAGVGISLP HYTGYYQYHG
TKVSPSEMQR GDLIFYGPGA SQHVAIYLG DQMIEAPNSG SVVKISPVRW SGMTESVVRL
I

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> RXA00163 (1-561, translated) 187 residues
LDQAGLDSVE LLALRDVEAY DEPIEDGRFT ADNAQIKARA GVTHGTGIATI ADDSGIAVEE
LNGMPGVLSA RWSGAHGNDT ANNELLLAQM EHVDPERRNA AFVSVCVLAL PDGQEFVQEG
RWEGQLLRGP KGENGFYDYP LFIPAEIDG QGRSSAELSA EEKDALSHRG QALRGLVEKI
AQVAAAS

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> RXA00208 (1-849, translated) 283 residues
MNTAPAPRRR EMKIKTATVT GVRQISPOLI RFSFDCPEIV GADLGFTDHY IKILFVPAGA
DYSWPFDMAE IAETQPRELQ PVRRTYTFRT VDTVAGTFDI DFVAHGTDGL AGPWAQQAQV
GDVIAFGGPG GAWKPETTYE HYVLAGEDEA APAIFAALH LPAGTTAKAF IEISSNEARF
NAPASDNIEV VWVPRDGATH GTLLIDALRQ DGYPTKKT SW FIHGVAEMVK ETRKFLFVEG
NVDKADASIS GYWRGLGMDT QWQASKREFN EQNEAEELAL SKA

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> RXA00212 (1-1560, translated) 520 residues
MNILCLLCWK FAVRCSSLWR ISQEVNAQRI ADGGKPFANP RNAAAGSLRQ KNIEDVKKRR
LRMISHGIGF TEGFSPASQH DAYLALAAWG LPTSPYTEAV TDPEDVVKV SYWADHRHDA
LHEMDGLVIK VDDIASQRAL GSTSRAPRWA IAYKYPPEEV TTKLLDIQVG VGRTRGVTPF
AVMEPVLVAG STVSMATLHN QSEVKRKGVL IGDTVVIRKA GEVIPEVLGP VVELRDGTER
EYIFPTLCPE CGTRLAPAKA DDVDWRCPNM QSCPGQLSTR LTYLAGRGAF DIEALGEKGA
EDLIRTGILL DESGLFDL TE DLLSSNVYT TNAGKVNASG KKLLDNLQKS KQTDLWRVLV
ALSIRHVGPT AARALAGRYH SIQALIDAPL EELSETDGVG TIIAQSFKDW FEVDWHKAIV
DKWAAAGVTM EEEVGEVAEQ TLEGLTIVVT GGLEGFTRDS VKEAIIISRG KASGSVSKKT
DYVVIGENAG SKATKAELG LRILDEAGFV RLLNTGSADE

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> RXA00213 (1-573, translated) 191 residues

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VTEDNAQLRR TWNDLAEKVR YHRDRYYNEQ PEIPDADFDA LFKQLQQLLE DHPELAVPDS
PTMVVGAPVA EQSSFDNVEH LERMLSLDNV FDEQELRDWL GRTPAKQYLT ELKIDGLSID
LVYRNGQLER AATRGDGRVG EDITANARVI EDIPHQLQGT DEYFVPAVLE IRGEVFITVE
DFPGGQRAAH C

> RXA00214 (1-711, translated) 237 residues
MNSPSNPSPT VPSLDTTKML SFDLETTGVN PFDTRIVTSA MVTITSKGAE PIELLADPGI
EIEPAATAVH GITTEHARAN GRPHDEVLA E TISRLRAGWQ AGLSVIVFNA SYDLTVLRNH
DPSFTIDGLV YDPFVIDKVK DRYRK GKRTL TDMCAHYDVQ LGNAHEATSD ALAAARIAWK
QVRLWPELTK MTGEELMEFQ AVNYEQQKS FRSYLIGQGR DASDVNTSWP VQTD PAS

> RXA00313 (1-939, translated) 313 residues
MAGNDSRRGG LRKTNKKGAT KGSGGQVRRG LKGKGPTPKA EDRTYHAAHK RKVERDRRDR
GRHQREMP EL VVGRNPVLEC L HARVPATAL YVAEGAANDE RLSEAVHTAA GRNLPVLEVN
KLELDRMTGN GMHQGIGLAI PPYEYADVHD LIANAASKK PGMFVILDNI TDPNRLGAVI
RSVGAFGGNG VIIPERRSAS VTAVAWRTSA GTAARVPVAK ETNMTRVVKE FQONGYQVVG
LDAGGDHTLD TYDGTDNVVI VVGSEKGKIS RLVRENC DTI MSIPTEGWVE SLNASVAAGV
VLSEFSRQRR IKG

> RXA00341 (1-1407, translated) 469 residues
MKLYAAVLDF EPVAQEF GVE RGFDPHIHDE AASSVDRYAQ EREDLLHMPF VTIDPVGSRD
LDQAVLIEEI DSGFRVHYAI ADVAAFVEPG SELEKISLHR GQTIYLPDSP ARLHPEELSE
DAASLLEGQT RPAVVWSIDL DERGEVTATK VRRGLVKSRA RLDYDQAQID AENGR LHPSI
SLLPKVGQLR QESALRREAV NLSIPSQRVV KVPND DAGEH YEIVIEPRPH IMDYNSEISL
LTGMVAGEMM VKAGHGLLRT LAPATKESEA TFRSEAQALG FEIAPEQPIG EFLQSVDPNT
PKGMAIQREA QKLLRGSGYA SVKNGDSEVH SGVGGYAHV TAPLRLRIDR FATEHCLAIA
SGTDVPEWVT RVEEQVLD TM KYSSILASQV DNACLDL TEA TVLKYWEGQN FNAV VASEP
EKNSARLFVY KPPVLAKCIG APEQGTNQDV TLVTANLKKR EVLFAW PAD

> RXA00361 (1-1848, translated) 616 residues
MTTSETAPSK ASLYELLEGV SLSDERTFRR RLSKARAPKA LGAIKADIDK ARLLIDEKSQ
LIPSITYPEN LPVSSRRDDI AEAIRDNQVV IIAGETGSGK TTQIPKICLD LGRGRRGLIG
HTQPRRLAAR TVAERIADEL QDIGESVGY AIRFDDRVS HTSVKLMTDG ILLAEMQRDR
FLNAYDTIII DEAHERSLNI DFILGYLRQL LPKRPDLKVI ITSATIDPER FAEHFADASG
KPAPIIEVSG RTFPVEIRYR PLEVLDGDKI IDTDPLDGLC SALEELMAEG DGDILCFFAG
ERDIRDAMEA IEARRWK GVE VTPLFGRLSN QEQRHVFSPH SGRRIVLSTN IAETSLTVPG
IHVYVDTGTA RISRYSVR TK VQRLPIENIS QASANQRSGR CGRVADGIAI RLYSEDDFNS
RPEFTDPEIL RTNLA SVILR MASLRLGDIN DFPFVQAPEQ RSIRDGILL HELGALTD DDT
QADGSPQLTQ IGKDLANIPV DPRMARM LVE ANT LGCLHSV MVIVSALT IQ DVRERPLEFQ
AQADQAHARF KDTTSDFLGF LKLWEYIADQ RNQSSGNSFR KQMKKEFLHY MIREWWDLV
RQLEQIGQQL GWAKKE

> RXA00407 (1-576, translated) 192 residues
LNVAQVEALA RAGAVDCLGV GRRQALWQAG VAATEKPGML PGLSVIEAPA LPGMSAFELM
ATNISATGVT ADYQPMALIR ERMEELGIVP ADRLLLEVEDG TRLRIAGIVT HRQRPQTASG
LTFLGMEDET GLNMVMVSVG LWQRQ RVLAR NAKALIIRGI VQNAQGVATV VADRLEPLDM
GEFLSRGSRD FR

> RXA00414 (1-420, translated) 140 residues
MQGEASVPFA ELHATSSYNF LTGASDPSDV VVQAKKLGLA ALSVMDRDGF YGAVRFAEAA
AEAGMHTVYG AELSLQEGVL TVLCKNPEGY KKLSHLISDA KMARGEKGKF AIRRCQWLLN
MLQGIGWSLQ VFSGWTKSTM

> RXA00415 (1-1962, translated) 654 residues
MVAEHAAGDW VVLAGFQWLD KIDYVIDCFK PENIVLEFGS TMTPEDADR N EYLRR TQAKF
QLRGILSTNP ESAARGSVRL AGAKQALARK MPLADAES EL HPMGTTWMRS GDTLLKAHPD
YADLIATTVE LAEACFTLD LVAPNLPKWD TPGEHTEMSW LAHLVSTRID TRYVGRSADI
KARAA TQIDY ELGVIEKLGF PGYFLVVNDL VEFCD RSNIL CQGRGSAANS AVCFVLGITN
AEPISAGLLF ERF LSPDRDG PPDIDIDIES GRREEVIQYV YEKYGRDNAA QVANVITYRT
KGAMRDAARA LGYPQGAADA WAKGTSEPPD DVLELAAQFK GQPRHLGIHS GGMVICDRPI
ADVVPVEWAR MDNRSVVQWD KDDCATAGLV KFDLLGLGML EAIHHMLDLV AEHRGKKINL

WELDLAEPEV YDMLCKADAV GVQVESRAQ LSTLPRLKPR TFFDLVVEVA LIRPGPIQGG
SVHPYLRRRA GEEAITYDHP VLEKSLGKTL GIPLFQEQLM QVAVDAAGFS GGEADSLRRA
MGSKRSPERM AALRSRFFQG LKDTNGIVGE TAEKLWNKIV AFAAYGFPEHS QSFSASLVY
FSAWFKYHYP AEFCVGLLRA QPMGFYSQPS LISDARRHGV SILPITVND S GVEA

> RXA00460 (1-378, translated) 126 residues
MPEHPLHVIF DNPVIPPNTG NAIRMCAGTG AHLHLVEPLG FELTEKHLRR AGLDYHDLAD
VTVHATFDEA MAAVPGRVFA FTTTANTRFT DIAFEPGDAL LFGTEPTGLP QEHVEHSRIT
SELRIL

> RXA00538 (1-1269, translated) 423 residues
MSRISARTLA IALAGATAAS LAVVPAATAN PAGTAPVINE IYEGGGNSGS LFSNDFIELY
NPTSGDISLD GWSVTYYAAN GNSGGTTNLT GNIPANGYYL IQQRAGSNNT GALPTPDATG
NLAMGASQGS VALTDNSGLT ADLVGFGGTS MFEGTAAPE TSNKLSVQRK EVGADSDNNS
VDFETGAPTP TSSGGSAPVD PGEPETPVNP GETVSIAQIQ GTGLATPLEG QTVTTEGIVT
AVYAEAGGFNG YYIQTPGSGT APKVAGDASD GIFVYVGSNG SYPELGASVT VTGKATEHYE
MTQLGNSSFT VSDTAFEPVT PLELDTVPTG DDIREAYEGM LLKPTGAHTV TNNYATNTFG
EIALAPGNEP LYQATQMVAP GAEIAIYEAE NVAKQITLDD GRSGNYTRGD SSTPMAWLVO
DGG

> RXA00542 (1-519, translated) 173 residues
ALFLTNNVWR QAAENVAESL SKGMRVIVTG RLKQRSYETR EGKRSVFEV EADEVGPSLT
FAKADVQRTF RGGNSGGNYG GGNQGGGLGG NQGNQGGGFS NQNSGGFGGN QGNQQQSNQG
GFGGNQNNQSQ GNNFNQGGFG GGSPQAAPDN DPWNSAPPAG SGGFGGADDE PPF

> RXA00543 (1-426, translated) 142 residues
MKLILTAAVE NLGVAGDIVE VKNGYGRNLL LPRGLAIVAT PGAEKQIEGI KRAQEAREIR
DLDHAREVKV ALEALEGVTI AVRTSESGKL FGSVKTDIV DAVKAAGGPN LDKRAIVLPK
NLVKTGKYQ VEAKLTDGIV SA

> RXA00544 (1-1530, translated) 510 residues
MATDTHAASF DDDYVPPQEP SDSFADDAHV DVPAPAFEDF SPAQAFGQGT RGGDSQGFKK
RGRKDESREY RDRQPPYDN DAEMGVLGAM LLSPTTVIDI LDILTPEDFY RPSHQLIFQA
IIDLFSNDRD IDPVIIVSGRL DRTNDLDRVG GGAYLHDLIQ SVPTAANARY YAEIVSEKAV
LRLVDAGTR VVQLGYEGDE GAEIDAVIDR AQQEVFAVSQ KNQSEDYAVL ADILDETMAE
LEMLNDGGIA TGIPTGFKDL DDLTNGLRGG QMIIVAARPG VGKSTIALDF MRSASIKNNM
ASVIFSLEMS KSEIVMRLLS AETEIRLADM RGGKMDETAW EKMVQKLDKV AQAPLFIDDS
ANLTMMEIRS KARKLKQKHD LKMIVVDYLQ LMSSGKRVS RQQEVSEFSR QLKLLAKELD
VPLIAISQLN RGPESRTDKR PQLADLRESG SLEQDADIVM LLYRPDSQDK DDERAGEADI
ILAKHRGGPI DTVQVAHQLH YSRFVDMARG

> RXA00545 (1-255, translated) 85 residues
MIILDPSQDE RTVAPSLDKF LEVVRKDKGD VVKVDVWGKR RLAYPIDKKE EGVYAVVDLK
CESATVLELD RVLNLNDGVL RTKVL

> RXA00562 (1-630, translated) 210 residues
MDADPLIEDD VSGAEVKDSS DEPLLALTRY VFDRGERPVT RGLFHQVA AI LSIVSGSVLS
TYAWMELVWV QALGVMVYAL AMLGLFAVSA AYHRGPWRRL HTVAWWRKAD HSTIAVFIAA
TYTPLCLIVL EPGTAAWMLG IAWVGAIDSV IMNMVWINHP RWLSVLVYLA LGWLIVPLVP
QLWSGAGPTV VWLLLAEGIV YSVGALVYGF

> RXA00625 (1-339, translated) 113 residues
SDHDIKVG F NLSETTEPTI PVEPTDPAEP TDPTTPVKPT DPVETTDPS E PTDPAEPTDP
AEPTDPEETK KPEEPKNPGS SNGSSQYATI AAIIAAILGA IALAFQFFHS SSN

> RXA00670 (1-489, translated) 163 residues
MPTPKKGARL GGSASHQKKI LSNLAASLFE HGAIKTTDAK AKALRPYAEK LITKAKSGSV
ADRRNVLALV PNKEIVAYLF NELAPKFENR PGGYTRI I KL ENRKGDNAPM SQISLVLEET
VSAEASRATR ASASKAAEE AETEEVVEAP AEETATEEAA EEK

> RXA00671 (1-1014, translated) 338 residues

MLISQRPTIT EEFVNNARSR FVIEPLEPGF GYTGLNSLRR TLLSSIPGAA VTSVKIDGVL
 HEFTTISGVK EDVSDIILNI KGLVLSSDS EPVVMQLVKE GPGVVTAGDI QPPAGVEIHN
 PDLHIATLNE TAKIEIELIV ERGRGYVPAT VTATGGEIGR IPVDQIYSPV LKVSYPKEAT
 RVEQRTDFDK LVIDVETKNS ITARDALASA GKTLVELFGL ARELNIAAEG IEIGPSPQET
 EYIAAYSMPI EDLDFSRSY NCLKREDIHT VGELAERAES DLLDIRNFGQ KSINEVKIKL
 AGLGLTLKDA PEDFDPSTLE GYDAETGGYI DVEAEDSE

> RXA00672 (1-603, translated) 201 residues
 MARYTGPAIR KSRRLRVDLV GGDMAFERRP YPPGQAGRAR IKESEYLLQL QEKQKARFIY
 GVMEKQFRRY YAEANRRAGK TGENLVVLE SRLDNVVYRA GLANTRRQAR QLVSHGHFTV
 NGKAIDVPSF RVSQYDIINV REKSQKMNWF EEAQDNLADA VVPAWLQVVP ENLRILVHQL
 PERAQIDIPL QEQLIVEFYS K

> RXA00673 (1-90, translated) 30 residues
 LQAAGLEIGS ISDVTPQPHN GCRPPKRRRV

> RXA00694 (1-396, translated) 132 residues
 MTMTDPIADM LSRVRNASNA HHDTVSMPS KIKANIAEIL KQEGYIANYT VEDAKVGKTL
 SLELKYSNTR ERSIAGLRV SKPGLRVYAK STNLPQVLGG LGVAIISTSQ GLLTDRQATE
 KGVGGEVLAY VW

> RXA00695 (1-534, translated) 178 residues
 MSRIGKEPIT IPSGVETKID GQLVEVKGPK GTLNVNVPEP ISVAVEDGKI VVTRPDDHRT
 NRSLHGLSRS LVNNLVVGVV EGYTIKMEIF GVGVRVALKG KDLEFSLGYS HPVLIEASEG
 ITFAVDGNTK LSVSGIDKQK VGQVAAVIRR LRKDDPYKKG GIRYEGEQIR RKVGKTGK

> RXA00696 (1-402, translated) 134 residues
 MSNTENKQKR VSVGKDIATR RRVARARRHF RIRKNLRGTP EAPRLVVHRS SRMHVQIID
 DVAGHTLAAA SSIEAEVRAT EGDKKAKGAK VGQLIAERAK AAGIEQVVFV RAGYKYHGRV
 AALADAAREG GLKF

> RXA00697 (1-633, translated) 211 residues
 MPGRERRDGG RSADDNKQND RNERRGGRR DRRNQQQDE RSQYIERVVT INRVSKVVKG
 GRRFSFTALV IVGDGKGMVG VGYGKAKEVP AAIQKGAEAA RKNFFRVPMV NGTITHPVQG
 EKAAGIVMLK PAAPGTGVIA GGAARPVLEC AGIQDILSKS LGSDNAINVV HATVDGLKQL
 VRPEEVAARR GKTIEEVAPA RILRARAGQE A

> RXA00698 (1-183, translated) 61 residues
 MALKITQIKG TVGTPKPHRE NLRSLGLKRI RHTVIRPDTP EVRGMILAVR HLIVVEEVAG
 E

> RXA00699 (1-444, translated) 148 residues
 MSEPIKLHDL RPAAGSNKAK TRVGRGEASK GKTAGRGTKG TKARKQVSAA FEGGQMPLOM
 RLPKLKGFKN PNKVDYQVVN IADLAKEFPQ GGDVSIADIV AAGLVRKNEL VKVLNGNDIS
 VKLNVNTANKF SGSAKEKIEA AGGSATVA

> RXA00706 (1-267, translated) 89 residues
 EFLDRLLTVA LPRIRDFRGL SDQQFDGHN YTFGLTEQTM FYEIDVDKID RPRGMDITVV
 TTAVTDDEGR SLLRELGFPP KGEDGNRQQ

> RXA00709 (1-339, translated) 113 residues
 VADNTGAREI LCIRVLGGST RRFAGIGDVI VATVKEATPG GNVKSGEIVK AVIVRTKKET
 RRADGSYISF DENAAVIAIKN DNEPRGTRIF GPVARELREK KFMKIVSLAP EVI

> RXA00710 (1-312, translated) 104 residues
 MKVHKGDMVL VISGPDKGAK QGVIAAFPKT EKVLVEGVNR IKKHVANSAP ERGAESGGIV
 TQEAPIHVSU VMVIDSDGNP TRVGYRFDEN GKKVRVSRN GKDI

> RXA00711 (1-156, translated) 52 residues
 MTENYIPRLK TRYQDEIRTK LQGEFEFENV MQIPGVTKIV VNMGVGDAAR DS

> RXA00717 (1-960, translated) 320 residues
 VTPPARRDGT PDKKQSNRSG GYRSSVRGYK PGSSRPNTRO QPQKKDEILL SNAKPAKKQN
 VKSDDDDWSMG FLNRNDSQDV RLQKVLAQAG VASRRHAEIL IDQGRVEVND RIVTTQGVVRV
 DPNNDVIRVD GVRIHINEDL EYFVLNKPGR MHSTMSDELG RPCVGDVSE KTASGQRLFH
 VGRLDADTEG LLLLTNDGEL ANRLMHPKYE VSKTYLATVR GEATNKLVS LRDGVELEDG
 PAKADFAQII DVFQGKSLR IEIHEGRKHI VRRFLDELGF PVERLVR TKL HTVQLGDQKP
 GSLRALNSSE LTSLYKVVQL

> RXA00789 (1-243, translated) 81 residues
 MTNPDIVGSG QGNDSFEPVA QLSYERARDE LVEIVKILEL GQMGLDESLK YWERGEALAK
 RCEEHLGAS ARVEQALNQA E

> RXA00790 (1-1026, translated) 342 residues
 RNRPTPLKDG DRVIVYGKPA FYAGRGTFSL WVTDIRPVGI GELLARIEEL RKRLAAEGLF
 DPARKKRLPF LPNRVGLITG RGSAAERDVL SVAKDRWPEV QFEVINTAVQ GASAVPEIIE
 ALRVLDQDPR VDVIIARGG GSVEDLLPFS EEALQRAVAA AQTPVVSAG HEPDTPVLND
 VADLRAATPT DAAKRVVPDV AEERMLINQL RSRSAALRG WVQREQQALA AIRTRPVLDN
 PMTPINRRRD EIAQAVGLIR RDVTHLVRTE QALVASLRAQ VSALGPSATL ARGYSVVQVI
 PRDGSAPENV TTIEQSPPGS QLRIRVADGS ITAASMGTOQ AN

> RXA00798 (1-2355, translated) 785 residues
 DYWDLAEFEN ARENGKADSD NPSSFTARLS TIDGNRVAQG RDFNDRGELT SEAVVVDKQR
 AGEALAELEG QEMAVVGVEE KPYTRRPYAP FMTSTLQOES GRKLHYTSE TMRIAQRLYE
 NGHITYMRTD STSLSEQGMK AARDQALELY GAAYVSPSPR TYDRKVKNSQ EAHEAIRPAG
 ETFATPGQLH GQLDAEEFKL YELIWQRTVA SQMADAKGTS MKVTIGGTAK TGEKTEFNAT
 GRTLTFFPGFL RAYVETTRTA DGRDVADNAE KRLPLLSEGD LLKVLSEAD GHSTNPPARY
 TEASLVKKME DLGIGRPSTY ASIIKTIQDR GYVYSRGNAL VPSWVAFVAV GLLEANFTSL
 VDYDFTSSME DELDNIAAGR EGRTWLNLF YFGDAEADQS MAESVARQGG LKALVDANLE
 HIDARSVNSL KLFDDAEGRA VNVRVGRYGP YIERIVGTTA EGEPEFQRAN LPEETTPDEL
 TLEVAEKLFA TPQGGRELGI NPANGRMVVA KEGRFGPYVI EQVTDSEERAG AEAQAEVVA
 AERKADEQR ATDGMRPKNW ETKTAANQKE KRINQLVEEN LKPATASLFS GMEPAAVTLE
 EALKLLSLPR EVGVDPDSNE VITAQNGRYG PYLKKGSDSR SLNSEEQIFT VTLDEARRIY
 AEPKRRGRAA AQPPLKQLGD NDVSGKPMTV KDGRFGPYVT DGTNANSLRK GDVPESLTDA
 RANELLSEER AKEAADGGAP AKKTSTKKA AKKTAKKTT AKKTVRKAPP KTTKNVVKAG
 AKKKS

> RXA00807 (1-1119, translated) 373 residues
 VFDSLGSKT VSKTLFDAAS SARALVRART TERARARAEH QNPAMIHDSG FAQSWLFTGP
 PGSGRSVAAK VFAATLVCSN PDVVGCGQCE DCRAAMGGSH PDIEHIVPQQ LSIGVDAARE
 VIKAAVSPV AGNWRVVFIE NADRLTMQAA NALLKTVEEP TESTVMILCA PTTDPRIAI
 TLRSCRHLI IPTPSIAEVA RILVAEGNVS QADAELAAAA SGAHIGRARY LAHNNAAQRR
 RASILNLAEL IFHGDVAFRS VNTLVKMMET EAKDSNKEKE EGDLEAVRIS LGMAAKGKGV
 HKAVERGGAGD FKALEDQQL RRTRFLRDSL DLALVDLAGI YRDAIIISSQ AQVGLTHPDM
 EGLSQELATK VSQ

> RXA00809 (1-510, translated) 170 residues
 LTTPDFESEK TQAMRPSFGE ELAAIVSKRY SESTLTHMVT LPASKAKYVD WPSWVPASLR
 DALVNRGINK LFSHQEQTAH LAWNGQHVVV ATGTSSGKSL GYQLPILSAL GTDPTACALY
 LTPTKALGSD QLTSTSTLLR DIPDFHPIN APYDGDTPSE ARSGIRDLSR

> RXA00817 (1-1710, translated) 570 residues
 FYGSHTPVIL ASATSSDPEI HASRLGAPV KAVTEDGAPT GERTVLLWEP GFIEGAEGEN
 GAPVRRAAST EAANIMATLI SEGARTLTFV RSRRQAEIVA LRAQEELSTL GRPDFARRVA
 SYRAGYLAED RRRLERLLDD GTLLGVASTN ALELGIDVGG LDAVVTAGFP GTVASFWQQA
 GRAGRRGQGS LVVLVARDEP MDTYLVHHPA ALLEKPEVAA VFDPTNPHVI RGHVYCAAVE
 KPLTEAEVAA FGAQKVVEKL EIEGLLRKRP RGWFAVEKPM SEDPDELSPD SAHQQVSLRG
 GSGSEFMIVD ITDGRLGTL DSAKAMSQTH PGAVYLHQGE SFVIDELDL ENLALARPEL
 PDYTTIYARD TDIRITSAPL EDEVFDAGG LWVANVEVQV TDRVTGYVTR LSDGTTLDAT
 PLYLPPQILQ TRAVAYTIDP LALEAMGIPA ADIPGALHAA EHAAIGMLPL LATCDRWDIG
 GVSTALHADT GYPTVFVYDG MDGAGAFADT GFRFAQWIE ATFEVVRSCS CESGCPSCVQ
 SPKCGNGNNP LDKAGAIKLL GAMVTLLGTS

> RXA00823 (1-780, translated) 260 residues
MGSITPQKR RVGSHIANKG QETDIGRKRR ARRINRTLTV AYPDAHCELD FTNPLELTV
TILSAQCTDV RVNQVTPALF KRYPTATDYA NADRTLEEF IRPTGFYR NK ATSLIGLGEA
LISLHDGQVP GTLEQLVELP GVGRKTANVV LGNAFGVPGI TVDTHFGR LV RRLKLTDEED
PVKVEKVMNE LIEKPEWTMF SHRLIFHGRR ICHSRRACG ACMLAADCP S FGLEGPSDPF
EAQKLIKSD REHLLKMAGM

> RXA00890 (1-1275, translated) 425 residues
LSIATVVALL FSGLLGAVES ALSSVSRARV EQMLKDEASG SASLLRVIDE RALHINMLIM
LRTLLDASAA VFAGAIANV MDSWAWGIVL AIVVVSLLTF AVVGVFGR TV GRKNPYSVML
RSVVLSGLA KILGPIARGL IWIGNIAPG PGFRNGPYAT EVELREMVDI AQEHGIVEIE
ERRMIQSVFD LASTTVRQVM VPRPEMIWIE SGKTAGQATA LCVRSRHSRI PVIGENVDDI
IGIVYLKDLV QKTYATDGG KSVLVDEV MR EATFVPDSKS LDALLQEMQE DHKHIAILVD
EYGGVAGLIS IEDILEEIVG EIADEYDARE VAPIEKIGDR TYRVVSRLSL EDLKDHIIEE
LDLEIEFGDE IEDQVDTVGG LIAFELGRVP LPGATVETCG LKLTAEAGAKN RRGRLRMHSA
VVEVG

> RXA00898 (1-789, translated) 263 residues
MRIVNWNVNS ARTRVDRMVD FLLRHVDV DL AVQETKCKDE QFPTERFTEI GYEVAFGLN
QWNGVAIISR VGIENVETHF PAQPGFNKDI TKEQSIEARA IGARCGGVQV WSLYVPNGRE
IADPHYDYKL RWFSLRNYV IDTLEYRPEE KLVLLGDFNI APTDIDVWDI AAFEGKTHVT
EPERAAFDGL IEAGLKETTP GPGTYTYWDY KGARFLKGE G MRIDFQLASP ALAATAGET F
VDVEERSGTG ASDHAPVIVD YKV

> RXA00967 (1-363, translated) 121 residues
MPVQDAGERN NNDRPVMPGE ILREEFMEPL GLSQNGLARA IGVPPRRINE IVHGKRAITA
DTALRLAAYL GPDPQFWLNL QTHYDLSVTY LDARTLLEAI KPYDRQQNVA RTLNPLQESS
Q

> RXA00990 (1-453, translated) 151 residues
VATDIAARGI DVDDVSLVVH VDPPAEHKAY LHRAGRTARA GTSGTVVTLV MDEQIKEVRE
LFQKAGVTAA EVKVNENSPE LAKITGARRP SGVALPAPGQ QQPKREQKNT HNRSDSRGSS
RNPRRRQSG SRSTGRSNPR RQTSRKDGPK S

> RXA00994 (1-342, translated) 114 residues
MTTFLELKLP DEIVRELRSQ GITEAFPIQE AAIPDALAGK DVLGRGPTGS GKTFTFGLPM
ITRLARSGAS KPGRPRGLVL VPTRELAAQV RERLDDPARV MGLRVLEVVG GVNI

> RXA01030 (1-1176, translated) 392 residues
MTSTTQPGTT PELSADTHSE PWDVVIEN TL EPFQKVVRQF IIDRPYSGIF LTMGGGKTLT
TSLALTYIQP PGHILVVAPL NISRLTWPEE VRKWNIPVNA ISLITNERGT KLTRAKRLKL
YEETATTPPT LYYITINLLE DIVNYFGDRW PFWTVIIDE S QTISDISSKR TRALFSVRPY
IGRLILLTGT PSANKFDSIY AQVAVLDYGA SLGDNIDVFR ARWCAPDIIT DKQVRRWKPA
NKQAEAEVYR TISHLVMSAV NTDIKLPPLH FVDHEVHMSD DEHRDYELFK KDAVLAALLD
MAEENEGGEG ADDTDAADSA TTPPASSQP TNPAIPAGLL QAIQQTQDTN GRAIAPVTTA
ELDHFDLPLV QRQEDLGT LV VISAVHASDS AA

> RXA01064 (1-636, translated) 212 residues
MSLSISFHKI ALSATLLGA VAISACALVT QAPPINAAPV TGSSSLSFTL DLGTTTPTSI
DTVKLTQQAQ NQAAPRVAAS LVRVVDGDTI VVNYQGAQKT VRMIGIDSPE TKHPTKPVGF
YGPSSQNLT TMLRGATITL EFDSTQARED QYGRLLAYVW YTKGDSGLKL ANLEQIASGS
AAEYSFDTRY NHRNIFLRAQ TLAKASSLGM WG

> RXA01149 (1-258, translated) 86 residues
VVAPQSRKPQ HPGEILSERF LEPRGISHYD LAKTLHITEA TIANFVEGRT DLTIGLAVRL
SRSFDLSTQE WIALQRTFDQ AHRRSA

> RXA01157 (1-1605, translated) 535 residues
MSFSAEKGTH LSEFIADLGF DLDEFQIKGC HAVEEDHGVL VCAPTGAGKT IVGEFAVSLA
LSRGTKCFYT TPIKALSNOQ YHDLVAKHGS DAVGLLTGDV SINHDADIVV MTTEVLRNMI

YAGSFALERL SHVVMDEIHF LADASRGAVW EEVILNLDD S VNIIGLSATV SNSEEFGEWL
 TTVRGDTRVI VTDHRPVL D QYMMVQRKVM PLFEPGTDGR VNKELEATID RLNSKQSEQG
 RAAYRSGE GF RARSKGDKQD SRTGKPREQD RHRPLGRPEV LSILKGINML PAITFIFSRA
 GCDGALYQCL RSKLVLT DQA ESEEIARIVD AGVVGIPEED LQVLNFKQWR AALMRGFAAH
 HAGMLPAFRH IVEELFVKGL VRAVFATETL ALGINMPART VVLEKMKVFD GEGHVDLTPG
 QYTQLTGRAG RRGIDVLGNA VVQWSPALDP RWVAGLASTR TYPLISTFQP GYNMSVNLK
 TIGYEPSLRL LEKSFAQFQA DGSVVG DVRE IERAEAKVAE LRAQLNKEIA ATNPA

> RXA01238 (1-1401, translated) 467 residues
 VIAAYGASIS LDDSTLTISY SPLLAALSKS SAQSESVDLT QVSGVSVQDP TAFTHGFLNL
 EGVDKSIAFA PNSSADLAAL AADIDAVLKG EKPQHLGGGA PVVPSAPSTV AGLNFVGFVDV
 ETANDDWGSI CQIGLVKYVD GVEESSESWL CTPPESLNFF NEINIGIHGI TPEMVADQPR
 FADLVPKMVE FVGDLPLVAH NAQFDFTALS RACAASGIDV PEMIYGCSTL LARNEKLQVE
 NHKLPTVASH LGFELKNHHD AAEDARACAA ITIALAKRHS FECSFVDFVH SRGFTMGTV D
 NARVYPVLKD RSGANVALQR RNFGLDAGKT EVPVQPAVDP AWETPKAEPK KQSGRRAPWD
 KVATPEVIPD PNPDA DPSSI LYGQNVTLTG DFEPYEKGAL WQRIADQ GAL IGKNVTKKTT
 ILVAGPWATI TSKQKRAEEL KEKGQDIQIW DEKQLFTALG LDEQPPF

> RXA01255 (1-1080, translated) 360 residues
 MSTTSESQDH AARIEAERQE AIEAAPFVS S SIQSSGIHPS TSRMVTIDL V TLSPNLEPVE
 TFHAVLDSKT DPGPFHLHGV TEEEFASAKR FGQILKSLDR LIDGR TLLIH NAARSWG FIV
 SEAKRAMNDA ARANRNSNRG NRRGGRGRRR QRVGHIPKPL VIVDTLASAR RQAIALDDVR
 IRGVAHTLGL DAPAAEASVE RAQVSHRQLC REETLLVARL YGALKQSGPL AEIDPQSLRA
 DKFGLQRSII RVQAQEASPT LVNPGTYEPG KTLIAGMEVV VAPEIEMDPD IIIQACVDAD
 LSYSEKLTRQ TSVVVCNQTR DIDGKAMHAQ RKGIPLLSDV AFLAAV KRVK EGKKVDVEKR

> RXA01279 (1-465, translated) 155 residues
 MRKSAAPKRP VVQDPVYKSE LVTQLVNKIL IGGKKSTAER IVYGALEICR EKTGTDPVGT
 LEKALGNVRP DLEVRSRRVG GATYQVPVDV RPERANTLAL RWLVTFTQR RENTMIERLA
 NELLDAANGL GASVKRREDT HKMAEANRAF AHYRW

> RXA01280 (1-366, translated) 122 residues
 MPTIQQLVRK ARHDKSDKVA TAALKGSPQR RGVC TRVYTT TPKKPNSALR KVARVRLTSG
 IEVSAYIPGE GHNLQEHSMV LVRGGRVKDL PGVRYKIVRG ALDTQGVKDR KQARSRYGAK
 RG

> RXA01286 (1-654, translated) 218 residues
 MSENEIKGIL GTKLGMTQIF DEENRVIPVT VVEAGPCVVS QIRTVETDGY NAIQIAYGEI
 DPRKVNQPLT GHFKKAGVTP RRHVTEIRMD DVSGYEVGQD VTVEIFNDIK FVDVTGTTKG
 KGYAGAMKRH GFAGQGAGHG NQAAHRRVGG IGAAATPGRI FKGKRMAGRM GNDRVTTQNL
 KVQKIDADAN IILIKGAIPG NRGGIVTVKT AVKGGAHA

> RXA01287 (1-303, translated) 101 residues
 VAGQKIRIRL KAYDHEAIDA SARKIVETVT RTGARVVGPV PLPTEKNVYA VIRSPHKYKD
 SREHFEMRTH KRLIDILDPT PKTVDALMRI DLPASVDVNI Q

> RXA01305 (1-1866, translated) 622 residues
 MRPSSRPLGL VLCTALASTI ITVPAASAQE PALLDASAIA PHTASYGY YV DAWDTNVSTD
 LNPSSNAAVG VLEEMLELWT PGEEWNTGVK VDPTVLDSNI AQSV AISQQA TDAQQERAWV
 IDRRNQNYTA TDGLGAYADS YRETAQVGT IPDVVPADAT TVKYNDGGNV NGNWAETGGE
 LGSTVDLIEA IRQHAATSNN AKAYYQYPRP YRWTESIEPE AWGEGVDMPE YANPLRKDES
 EAASDGGFPS GHTSAGGMAT NGLAYAFPQQ YDKLLMTAAE IGESRIQLGM HSPLDVIGGR
 VLSTAITAGA LNDPNLDSVK AEAFFDQA W ISNQSDITTN TRDFDEQLAE YTNFLTGFGE
 QSGDTTQDMR VPKGA EALLE TRLPYLDDEQ RRWVLHSTGL ESGFPVLDDA EGWGRNLNYA
 AQAGYSAFDT NVDVTMNAID GGYNAKDNWQ NDIEGAGSLT KNGSGELTLS GDNSYTG GTT
 ITAGTLVAAT ESALGAGDLT INDGATLKIT QPVTVDGTAN LGGTLHVALP VGTNHVTVID
 AASISGEFDE VIVDGA VDAQ VSYDNGSVVI TTGAPSDDVK ETGSSAGGIL AIVAALGGIA
 ALIFGAFTQF GFPPAIKEMF DL

> RXA01334 (1-384, translated) 128 residues
 MAKLT KDELI EAFKEMTLIE LSEFVKEFEE VFDVTAAAPV AVAAAGAAGG EAAAAEEKDE

FDEVLEDAGA KKIGVIKAVR ELVSGGLKE AKELVEGAPK AILEGANKDD AEAAKAKLEE
AGAKVTLK

> RXA01335 (1-513, translated) 171 residues
MANPRNEAAL AELKARFAET DTVVLTEYRG LTVAQTTELK KALGFDVQYS VAKNTLVKIA
ANEAGVEGLD DLLTGPTAVA FIKGEAVDTA KVLKKFGEEN KAFVVKGGYM DGNALTAEQV
NAIAELDNRE TTLAKLAGAM KGSLAKAAGL FNAPASQVAR LAVALQDKKD A

> RXA01343 (1-651, translated) 217 residues
IYSPLEAANL VKETSSKNYD ASIDVAIRLG VDPRKADQLV RGTVSLPNGT GKTVRVAVFA
QGEKATEAEA AGADFGVTDE LVEKIQGGWT DFDVAIATPD QMAKIGRIAR VLGPRGLMPN
PKTGTVTNDV AKAIEEVKGG KISFRVDKAS NLHAAIGKAS FDAKKLAENY GALLDEIIRI
KPSSAKGIYV KRVTLSSSTG PGVEVDTHVT KNYAEEA

> RXA01353 (1-339, translated) 113 residues
MNILDKIDAA SLRDDVPAFR AGDTLDVHVK VIEGTTTTRTQ LFKGVVIRRO GGGIREFTTV
RKVSFGIGVE RTFPVHSPNI EKIEVIRRGD VRRAKLYYLR ELRGKAARIK EKR

> RXA01356 (1-627, translated) 209 residues
LSRNLGPVA GVDEAGRGAC CGPISIAACI LPDKPIQELA ALTDSKKLSA STREKLMPLI
KKHALAWSVI VISAQDIDRF GIQHANISGM RRAVAALGTQ PGYVLTDAMK VPGFTVPYLP
IIGGDASARC IAAASVLAKQ TRDDIMTDMA NDYPHYGLEI HKGYSTKIHM DAVRHHGASP
EHRYSYANVA KAHQEWLHAA DNDTTEGGA

> RXA01363 (1-699, translated) 233 residues
MSSLIPVHAA GSIQEGITEY LTTSFSLADK QVATELKRFL GHGDSGMFHG PYVRARLPYA
QAQEWENVLS WLPENFVPYH HQKAAFQRLS SLDNRGKDRR PDPTLVVTGT GSGKTESFLY
PILDHALRLR KRGQQGKAL LLYPMNALAN DQADRLARLI HNNPALKGVT AGIYTGEAKG
NRTQMGEREL INDPQAMRVS PPDILLTNYK MLDQLLLSV DREMWOXSAT SLQ

> RXA01374 (1-882, translated) 294 residues
MSESGALSST DSLSPGVTEI VRDEIWLVT VTRSTDGFRV KARGLSDYVR DHEATFFTAL
DKDLKVIDPT QVTVSLDDSS NYRRTRLWLE ATMRKTPVPL YQESLSVADQ MLADPLEYQL
AAVRKTLSSA NLRPRVLIAD AVGLGKTLEM GMILAEIIRR GRGERILVVT PRHIMEQFQQ
EMWTRFAIPL VRLDSVGIQQ VRQKLPAARN PFTYFPRVIV SMDTLKSPKY RAQLEKVHWD
AVVIDEIHNA TNAGTQNNEL ARTLAPTAE LILASATPHN GDPESFKEIL RLLD

> RXA01423 (1-141, translated) 47 residues
MAKGKRTFQP NNRRRARVHG FRLMRTRAG RAIVAARRRK GRAKLTA

> RXA01424 (1-309, translated) 103 residues
VHLWDSAESL DGTEKQGEVA SFGGPRFGLV VSKAVGNAV V RHRTSRRLRH ICASIAEKSP
ELLSPTHHV IRALAGAGNA TSAELERDIR YGLGKASVR TNK

> RXA01453 (1-297, translated) 99 residues
MAQKLYPPIH PGEILMEDFI KGFGLTQNKV AVSIGVPPRR INEIVHGKRS ITADTALRLG
RYFGIDPQFW LSLQTQYELE LDRDAGAATY AQITPLKVA

> RXA01480 (1-1893, translated) 631 residues
MAKGRIPESD IQAIRERTPI EEIVGDYVQL KSAGADSLKG LSPFKDEKTP SFHVRPNRGY
YHCFSTGKGG DVFSFLMEME HISFPEAVEV CAEKIGYQIN YQGGGPGRRE EPGTRQRLIL
ANKAAHQFYR EQLETPEAQF GRELLQRGF GQQHIYHFEC GYAPAGWDTL TKHLLKKGFE
FKELEAAGLS KMGKRGPIDQ FQRRLLWPIK NLSGDVIGFG ARKLFDDDKM GKYMNTPETL
LYKSKSVLFG LDSAKKAI AA GHQAVVVEGY TDVMAMHAAG IDTAVASCGT AFGEHLQML
RRLMLDDNYF RGELIYTFDG DEAGQKAAMR AFEGDQKFTG QSFVSVAPNG MPDCDLRLER
GDAAVRDLVA RRIPMFEFVI QSIISEYTLT TVEGRLAALR RAVPIVADIR DKTLOSEYAR
LLSGWVGWSD PSEVLQVHE EARRPKRDKK PVRAKRFDQP LEDQSLRPTM ALPNPRNPVL
WQERESLKIA LQYPELAGSY FDGLPTDSFT NPAYRMVRDA ISAAGGCERA LDGTDWLPV
SENMTDILGT SLVSELAMEP IEVEAQDLES YTDGVLRLQ ETRVGNQIAI LKQQLQMRP
SEDEQAYNSL FSDLVALEQA RRELLARAFA G

> RXA01481 (1-492, translated) 164 residues
 MQNSKKTLLGG VLGIVIVLAA AWFGIDLSTS GEATSQASSS ATTTTITSSN TPTSESISSN
 SDLDGDSCSM SELPQEADEV VDDILAGGPF DYPDNDGVRF GNYEGVLPKE SSNNYYREYTV
 ETPGLSHRGP LRIVTGGSNP TDPEVWYYTS DHYETFCAIT DAEN

> RXA01487 (1-267, translated) 89 residues
 MALTSEQKKS ILSEFGLHET DTGSPEAQIA LLTNRRNNLT EHLKFHKHHD HSRRGLLLLLV
 GRRRGLLLKYL ADNNVDYRD LIARLGLRR

> RXA01495 (1-447, translated) 149 residues
 MADNARAARM AKRIQTIVAS AIERDIKDRR LEFVTITDVT MTGDLHDAKV FYTVRGASIE
 EEPDLEAAAE ALHRARGQLR KIVGQQLGVR FTPTLTYSID TVPEASAHME ALLDRARKRD
 EELAKLREGA APAGDADPYK TSSKSESEE

> RXA01563 (1-810, translated) 270 residues
 QIFDLHLLKG HGSEDWSKRP LPESWLNAAA LDVEMLLLELA DVMAEILDQQ GKLPWAEQEF
 VHIVDQFATM TEPSETSWQD LKGLSTLKRK DQLVVAREMW LERDSFAASR DLAPGKVLSN
 KVIVEVARVL PRTPAELAQV KGFPGRSQGA TKRWFRITR ALKSPRRNWP KPQQRKDGIP
 DRRAWASYYP EEHEVLQEIR ALIDDLAADI NVPGENILQP STLRVAVWMA KHTGEIHNAE
 TLNAVLRDYG ARQWQIDQTF PILSANLLKL

> RXA01568 (1-435, translated) 145 residues
 WDNITYLMRA ARKGTVVPMV IELDGRFVGQ LTIGNIQHGG ISDAWIGYVW SSAVTGRGIA
 TAACALGVDP AFRRIGLHRL TATYLPSPNA SGKVLGHSGF RPEGYLIRNL HIDGQWMDHH
 FVALLADEYS ITAVERLTRE GRLRR

> RXA01581 (1-813, translated) 271 residues
 MALDFNEAFT ERTPRIVNAA KLRHAAQRKK DKRFLVEGEN SVEAAVATGA ATDLFVTESA
 AERFEEIVRT AGYMNVTYTHA ITDKAAKHLN DTVTTTGIFA LCDDVLWSVG KAITGQPRLV
 SVPVETREPG NAGTLIRVSD AVGADAVVFA GESVDPLGAK AVRSSAGSLF HIPVARNNNI
 ADVLGQLRSK GLQILATSAD GEVDLDDADE LLAKPTAWLF GNEAHGLDES LLAQADHRVR
 IPIRGRAESL NLATAASICL YESSKALFAG E

> RXA01594 (1-744, translated) 248 residues
 MIRGRRVFVA GMLALKPATV VEPEVSIRVE EDASEDWASR GAHKLLGALE SFEPLGLKVK
 GRRVLDAGAS TGGFTDVLLR REASEVAVD VGYGQLIWRL QNDDRVRVVD RTNIRYMTLE
 DTGGCEDMMV GDLSFISLKL TLPAIAKVLS DGADLLPMVK PQFEVKGKDL GSGGVVRSPE
 LRAEVTADVA KFAATLGLSL KHVVASPLPG PSGNVEYFLW LVKDGGASMP DDQQLSAMID
 TAVKEGPQ

> RXA01637 (1-309, translated) 103 residues
 VREASVEKQP ASSDPLETIR SRWSELNRIV EKQSVRTSIM LTEARVLGLR GDTLVVLGHST
 GALAARLNAA DHNGILVKVL AEETGLQLKV ECIVGTNP AE AGF

> RXA01661 (1-666, translated) 222 residues
 LDSTNTPGPT EWGESRVGKG PWEEENPGVP RPTSPLFDVT LLNEGDRRNV VDAYRYWTRE
 AIVEDIDTRR HSLHVAIENF ENDANIGTVV RTANAFVNT VHIVGRRRWN RRGAMVTDYR
 QHLMHHEDVD SLLAWAIAER LTIVAIDNTP GSVPLETAE L PKNCLLLFGQ EPGGVTEAAR
 AGALMTCIA QFGSTRSINA GVAAGIAMHA WIRQHADLSQ AW

> RXA01682 (1-234, translated) 78 residues
 RTKVDAYKSQ KRGGKGVCGA ELKQDDIVRH FFFVSSTHWI LFLHQLRSRV PPQGIRTSRG
 IPHRTWTARG QPSGIPTW

> RXA01683 (1-750, translated) 250 residues
 VYRLKAFELP EASRTARGQH VANLLEFQPG EQIAQVIQLE SYNDFFPYLV L ATAHGRVKKS
 RLLDYESARS GGLIAINLNE DDRLIGAALC GEEDDLLLV EFGQSIRFTA DDEQLRPMGR
 ATAGVKGMRF RDNDQLLSMS VVRDGEFLV ATSGGYGKRT PLEDYSTQGR GGLGVVTFKY
 TPKRGRLVSA IAVEEDDEIF AITSAGGVVR TEVKQIRPSS RATMGVRLVN LEEGVELLAI
 DKNVEDQGEA

> RXA01684 (1-873, translated) 291 residues
 GDTAIYDTLV RMAQPWSMRY PLVDGQGNFG SRGNDGPAAM RYTECRMTPLE AMEMVRDIRE
 NTVNFSPNYD GKTLEPDVLP SRVFNLLMNG SGGIAGVMAT NIPPHNLNEL ADAIFWLEN
 PDAAESEALE ACMKFVKGPD FPTAGLIIGD KGIHDAYTTG RGSIRMRGVT SIEEEGNRTV
 IVITELPYQV NPDNLISNIA EQVRDGLKVG ISKIEDESSD RVGMRIVVTL KRDAVARVVL
 NNLFKHSQQLQ ANFGANMLSI VDGVPRTLRL DQMLRYYVAH QIEVIVRRTQ Y

> RXA01688 (1-564, translated) 188 residues
 QFEGQTKTKL GNTEIKSFVQ RMANEHIGHW LEANPAEAKV IINKAVGSAQ ARLAARKARD
 LVRRKSATDL GGLPGKLADC RSKDPEKSEL YIVEGDSAGG SAKSGRDSMF QAILPLRGKI
 LNVEKARLDK VLKNAEVQAI ITALGTGIHD EFDINKLRYH KIVLMADADV DGQHIATLLL
 TLLFRFMP

> RXA01689 (1-726, translated) 242 residues
 FSDSYAVSG GLHGVGISVV NALSTRVEAD IKLHGKHWYQ NFEKSVPDEL IEGGNARGTG
 TTIRFWPDAE IFETTEFDFE TISRRLQEMA FLNKGTLITL TDNRATDEEL ELEALAEQGE
 TATELSLDEI DNETELVEET TDAPKKPKKR EKKKIFHYPN GLEDYVHYLN RSKTNIHPSI
 VSFEAKGDDH EVEVAMQWNS SYKESVHTFA NTINTREGGT HEEGFRSALT SLMNRYAREH
 KL

> RXA01713 (1-354, translated) 118 residues
 MVSDDLQPRD GIPPLLSTPG EFTAAADLLA SGTGPFADIT ERASGFRYDD RAFLIQIRRR
 GSGTLLFDPE QFRPELTQAL KPVINGQEWI IHAASDLP S LAWLDLHPGL LFDTELAG

> RXA01718 (1-486, translated) 162 residues
 LLTAVLSLIA GLVVIGVIV LNGYFVAQEF AYMSVDRNEL RALADSGDKK ARRALSITKR
 TSFMLSQAQL GITVTGLLVG FVAEPLVGNA LGVLLGGVGV PAAVSISVGT VLALAISTVV
 QMIFGELFPK NYTLATPLKS ALALAPSTTW YLKPRWLVDH IL

> RXA01735 (1-282, translated) 94 residues
 VANTEHNYDA SSITILEGLE AVRKRPGMYI GSTGPRGLHH LIWEVVDNSV DEAMAGHATK
 VEVTLLEDGG VQVVDDGRGI PVDMHPSGAP TVQV

> RXA01736 (1-2868, translated) 956 residues
 TVSTYDSYAG TLIREYGLLL PVEPSARLIT QTELYHIARN VVNNYDGELT ATQTPATVTE
 YLLKLVSEMD NHMVTAE DIR EESDPFIKLF DELPKGKGQR DNLNAEMTKW RDTQVARLQY
 LPLVKALKEE LHNQAVVTFG EQMSKAAHLA STHPQVGYSQ RRRFRVVMLD EYQDTSHSQR
 VLLSSLFGGT DPGLTVNAV G DPMQAIYGWR GATAANLENF VDDFPVIHLD GKTRAPKNEL
 TTSWRNPPEV LTLANAVSRE VLGSPDAPTR TVQPLQPREG APTGEVSLGW FGTAQEREF
 VADEMVKHWN AREEKGTF TA AVLVRKKRHS APMAEELTKR GIPVEIVGLS GLLDIPEIAD
 LISLATMLVR PHDNRAALRI LAGPHVGLGV ADLQRLQGRA RNIAGRVSRE RREKNPDPLA
 ELDAIIEEAT AIEPEAVVGL ADAVADLGE G DRFSEEGLSR LKRLATQLRY LRKYSLGRSV
 ADIFADIETV FNIRTEVLSR QDPHADGAAG TVHLDKF AEE VASHGGIGLP ELLDYFELAK
 DQEEGLEPGE VTVRS DRVQI LTVHKAKGLE WDIVSVLHAD ASTYDAKAST WLKNVTMIPS
 SLRGDAGTGA PEMDTSEADD RKALED SGKE YTSEVREGLR EENSRLFYVG ITRSERVLLV
 TGSALDESGT KAKVPYGHLE ILRDKAPECV VSWWEGEEGD VEKQKPAEGV FPQLLAADSS
 GADLVRGPRA EPNNEGGLES LWEKEVSALI DEHRRLSNPI VEVETPRELT ATDLVSMKNN
 PEQFARRMRR PVPFKPNTYA KRGTLFHQWL EDRFGSTALL DETELPGIDE DYSDDAFIEL
 RDAFLGSTWE NRTPEFVEHP FEVTIGEHVI RGRMDAVFHT DGTWMVVDWK TGRPTGPPEM
 DAAIIQLAVY RLAWARLKGL EPEEVRAAFH YVAHDHTFEP NDLPTQEELA RLLSQE

> RXA01739 (1-597, translated) 199 residues
 VINLQDLDED QRIAASAPRG PVCILAGAGT GKTRTITYRI AHLIDQGFVS PNRVLAVTFT
 SRAAGEMRHR LNLMGIGGVQ ARTFHAAARK QLLYFWPQVA GNLPWRLLDN KFQLVGRAVR
 GARLESQTEK VRDILGEIEW AKASLITPEQ YPDRLGTRTP PAPAEEKIAEV YQRYENMKAT
 PEGMLLDFDD LLLHTAGAL

> RXA01740 (1-1422, translated) 474 residues
 VAEFEFRQQYR SFVVDEYQDV TPLQQRVLDA WLGDRDDLTV VGDANQTIYS FTGATPEFLL
 NFSRKYPEAT VVKLQRDYRS TPQVTALANT VIGQARGRVA GTRLELQGM R IAGPEPEFSA
 FDDEPTEARE VAGRILTLLK NGVQASEIAV LYRINAQSAV FEQALADAGI VYQVRGGEGF

FTRPEIRQAL SQLIRTSQRD VDESDLVRLT QRTLVPPLGLS SEEPSGAQER ERWQSLNALV
 DLVKDLVKAT PDLDLTGILL KLRERQEAKH PPTVEGVTLA SLHAAKGLEW DAVFLVGLVD
 STLPISHAIK SGDEAIEEER RLFYVGVTRA REHLHCSWAL ARQEGGRKSR KRSRFLDGIV
 VEMASESGTF RSNRPKNCRV CGSVLSSPAE KAVGRCASCP IQADERVFEQ LRTWRNDTAK
 RENKAAYMVF SNATLMAIAE MNPTNENELL SVPGVGPMKI ENYGDDVLAI LGAL

> RXA01772 (1-2364, translated) 788 residues
 FKKAFKKQSE ALGIVYTPVE IVDFILRAAD DVSKKHFGRG LSDKDVHVLD PFTGTGTGMV
 RLLQSGLIK PDLARKYANE LHATEIMLLA YYVAAVNIET TYFGLEGERA LRNGEDAPVY
 EPFDGIVLGD TFQMYEDDDK LDLDVFTANN DRMERQRLTP VQVIVGNPPY SVGQSSANDN
 NANLKYPTLD RRIEDSYAKY STATNKNSLY DSYLRAFRWA TDRIHTQGVV AFVSNNGWVD
 GNTADGVRLS LAQDFSEIYV FNLRGNSRTG GD LAKREGGN VFNVRVGTQI IVAVKNPQLS
 GCRILYKDIG DNLSADAKLN EIAVATIEGA EWQTISPNEY GDWISQRSVD FDTWPVLGDK
 KNKSALKVFQ TFSAGLKTGR DAWCYGPTSA QVKTNITRLL ETYEQAQQR FNSWVDNGVT
 SPKEADVNFQ LKQNPDLADS KKISWDSNLK MSLSRGDTFS FDPSSIQMSL YRPFPPQQT
 FHVSLNQRRY QLPSMFPTPE HDNQGFYIVN PGSAPFSTL ATNLLPDLAM WGSNAGQFFT
 RWTWEPIETR EGELDFGNGL FSTTPKKGVE GEILDGYRRV DNITDEILKL YQSSLGEDVT
 KDDIFYFVYA QLHDPAYREA YAADLKKMLP HIETPTDRAR FDHFVTAGKE LMDLHINYED
 VEPWDVEVKV KEKADPTDRE TWRVTMCKWA KVRDPETKKL VEDHTTLYN SSITISGIPE
 EAENYQLGSR SAIWLIDRY QVKKDKASGI VNDPNDWADE VGNPRYIVEL IAKVTRVAVE
 TMRIVEEL

> RXA01786 (1-441, translated) 147 residues
 MRAAKITRGF TSNPAGSVLV EFGNTRVMCT ASVELGVPRF KRDSGEGWLT AEYAMLPAAT
 AERNRRESMA GKVKGRTHEI SRLIGRSLRA AVDLSQLGEN TIAIDCDVLQ ADGGTRTASI
 TGAYVALADA IKVLQERGVV PGSPLLA

> RXA01797 (1-708, translated) 236 residues
 GSIWIDLTTP EDRSAYDDQV RQGSWMGMRR SAMLSPTPRL TSAKMQRILE LFEEAEEHGR
 KALIFTYFLD VLDELEKHLG ERVIGRISGD VPATKRQLLV DALSHSKPGS ALIAQITAGG
 VGLNIQSASL CIICEPQVKP TIEQQAVARV HRMGQTATVQ VHRIGDETA DERMLEILAG
 KTHVFDVYAR LSETAEIPDA VDITESQLAA RVIDEERARL GLTESTGPKD EETALS

> RXA01824 (1-822, translated) 274 residues
 MKETDNLLRE NSHDRDISEI VATITALDHP SPSLLRFTAF VPGSANNPVW AEANVAIRLY
 LSEEFDDATR VYTVRSFDAA TESIVVDVVQ HHESPMMRW SDTVKINDTL VLTGPRPHFV
 IPEGEQAALF LDDTAIPALA AILDQWPTDL RGKGWVVTDD PAAFDELPSI DGLELNLAP
 GSDPTVQPLA QQAYDLENPE TYVVAAGER DEIKSIRRH F RKQVGLEKDA VAVFGYWKYN
 TTNTQIDAVR KENYMKMLSE GLQLENFDDL SLEI

> RXA01832 (1-894, translated) 298 residues
 MATSNRIANA MNSLAKLDSS MQRGLDNALA FVFRGRVPA ELEELLKQEA EDNVVHTEFG
 YVEAPNVFKV SVSPNDFSNI VDRFPDQPAR FGDQMMRFR NSGWTLVGPV IVLIEEDSSL
 HTGQLKSVSE KDPDPSELSS YLPLEGDGIL PVAESESKNV SDSSPYTGTE FLPAQSA DRP
 LVQGVPSQV DANRQAAMKP AGPTVTLLLQ DGSSRTYLVR EGSNIIGRSN DADLRLPDTG
 VSRQHVEITW DGRDAILVDL KSTNGTTVND TPVDNWLAD GDVITVGHNS IEVRIVSP

> RXA01866 (1-321, translated) 107 residues
 LKPGHRDDGV TVLIPIVPLG GLDTEGFDWL VPGLRLDLVT ELIRTMPKAL RRTVVPAPDF
 AERVLP LLRP YMTPLTTQLA DALHTLGGQG INASDFDPAK LPDHLRI

> RXA01867 (1-492, translated) 164 residues
 PEWVEKAAGP LLKHQYSEPY WSSKRGAMV HRKSTLFGVT IVAVKVVPYH TVDPVAARDM
 FIRHALIEGD WSTHHRFYHD NVAKLEAIGE LEAKARRRDI VVDEDTLFDY YDAKLPSNAT
 TTRNFDSWWK KTSRVTPDLL DFDPSLIKE DAGALRRSL RQVD

> RXA01876 (1-1473, translated) 491 residues
 IIGPNKTFLE YISHVLPELG ETGVVLSTVG ELFPGIVPTG SEDTLTREIK GSEEMASILA
 EAVKAYQVLP EKTIVVSVDG IEISIDEKTV AKSRTRARRA RQSHNSARPI FREHLVEQLA
 HQMAQTIGAD PLGGKNLLSA ADIDQLHDDL LDDAALQSVI DDFWPELRPQ DVLHDL LISE
 ERINVAAGY DEETKSALLR GELDPWAPSD AALLDELALL IGLPDPEEAR EKAEAKWREQ

IDDAQEVLVDV LSSSQSSDID DVTEAEVLSA FDVIDAETLA QRQTVTDNRT TAERAQADHK
 WAYGHVIVDE AQELSPMEWR MVFRRSPSRW MTLVGDIQQT GWPAGVDDWA ESLWPFVEKR
 FRHHELTVNY RTPAEIMSV A NELLTQINPD IAPAMAIRES GREVVNLPLD ADLSAVMDSL
 REEDSQRTIA VISSRRHHES DFYLVD DIK L EFDHVIVVD PAGIVEESPQ GLQDLYVAVT
 RATQSLTILG E

> RXA01893 (1-555, translated) 185 residues
 MIDEILFEAE ERMTATVEHT REDLTTIRTG RANPAMFNGV MAEYYGVPTP ITQMSGITVP
 EPRMLLIKPY EMSSMQVIEN AIRNSDLGVN PTNDGQVLRV TIPQLTEERR KDMVKLAKGK
 GEDGKIAIRN IRRKGM DQLK KLQKDG DAGE DEVQAAEKEL DKVTAGFVAQ VDEVVARKEK
 ELMEV

> RXA01912 (1-771, translated) 257 residues
 MRRFIFTERN GIYIIDLQQT LTYIDQAFEF VKETVAHGGT VLFVGTKKQA QEAVQVEADR
 VGMPYVNHWR LGGMLTNFQT VSKRLNRMKE LQAMDAENG YEGRTKREVL MLTRETRKLE
 RVLGGIAEMT RVPSALWID TNKEHIAVAE AHKLNIPVVA ILDTNCDPDV VDFPVPGNDD
 AIRSTALLSR VISTAVEEGK KAREERQLAA AKDAAGDAKP EAEEAPAAAE AEEAPAAEAE
 EHLQLSKLPL TAVSAVS

> RXA01948 (1-603, translated) 201 residues
 SVELPAEIFD REVSVALLHQ VVNAQLAAAR QGTHSTKTRG EVRGGGRKPF RQKGTGRARQ
 GSIRAPHFTG GGISHGPKPR DYSQRTPKKM IKAALYGALS DRARNARIHV VSELVPGQTP
 STKSAKAFIE RLTERKSVLL VVSREDINAQ KSANNLPGVH ILAADQLNTY DVLKSDDVVF
 SVEALHTFIN RASGAAQEEQ N

> RXA01949 (1-303, translated) 101 residues
 MATIANPRDI IIAPVVSEKS YGLMEQNVTY FFFVSTDANKT QIKIAIEEIF GVKVASVNTV
 NRAGKRKRSR TGFGRKATK RAYVTLREGS DSIDIFSGSV A

> RXA01950 (1-384, translated) 128 residues
 MAIRKYKPTT PGRRASSVSM FTEITRSTPE KSLLRPLSKT GGRNSHGHIT TRHRGGGHRK
 RYRVIDFRN DKDGV LAKVA HIEYDPNRTA NIALASLLRW REALHPRTG PDPGHRYRVR
 RCSRHQGW

> RXA02037 (1-330, translated) 110 residues
 GKKGPLYAPN VDCGDHVIVI NADKVAVTSN KREREMRYRH SGYPGGLKSM TLGRSLDLHP
 ERTIEDSIVG MMPHNKLTA SAKKLHVFSG SEHPYAAQKP EAYEIKKVAQ

> RXA02038 (1-309, translated) 103 residues
 MSEPIQNENV ESNVADAADI AAATAATEEF TNTIGDAIAT ASEETIEAA PVVLDGPIQT
 VGRRKRAIVR VRLVAGSGEF KCNGRTLECY FPNKLHQQLI KAP

> RXA02041 (1-714, translated) 238 residues
 RLGITSDWKS HWYADKSYAD YVAEDIKIRE FLSKGLDRAG IADVVIERTR DRVRVDIHTA
 RPGIVIGRRG AEADRIIRREL EKLTKGQVAL NILEVKNVDA NAKLV AQ SIA EQLTNRVAFR
 RAMRKAIQSA MRQPQVKGIK VVCSGRLGGA EMSRTERYHE GRVPLHTLRA EIDYGTIEAH
 TTFGRIGVKV WIYKGDVVG RRESEINAPA ERRGRGDRNA RPRRGQRRQ RAEQKQEG

> RXA02042 (1-414, translated) 138 residues
 MLIPKRVKYR RQHRPTRSGI SKGGRNVTFG EYGIQALEPA YITNRQIESA RIARNRHVRR
 GGKVVINIFP DRPLTQKPLG VRMGSGKGPV EKWWANIKPG RILFEMSYPD EATALEALRR
 AGQKLPCVKR IVKREDQL

> RXA02043 (1-141, translated) 47 residues
 MAIGTPAHEF RELNEEELVT RLNEAKEELF NLRFQLATGQ LTNNRRL

> RXA02077 (1-396, translated) 132 residues
 MLGKGELLTE GRSKDSILAD TTEALFGAIF RQHGFETARD VILRLFAYKI DNASARGIHQ
 DWKTTLQEEL AQRKRPMAY SATSVGP DHD LVFTAIVTLE GEEMGRGEGP NKKLAEQEAA
 HQAFRKLRES RA

> RXA02145 (1-1617, translated) 539 residues
 MSLATVGNL DSRVTMASGI RRQINKVFPT HWSFMLGEIA LYSFIVLLLT GVYLTLFFDP
 SITKVIYDGG YLPLNGVEMS RAYATALDIS FEVRGGLFIR QMHWAALLF VVSMVLHMLR
 IFFTGAFFRP REANWIIGVV LIILGMAEGF MGYSLPDDL SGVGLRIMS IIVGLPIIGT
 WMHWLIFGGD FPSDLMLDRF YIAHVLIIPA ILLGLIAAHL ALVWYQKHTQ FPGAGRTENN
 VIGIRIMPLF AVKAVAFGLI VEGFLALLAG VTTINAIWNL GPYNPSQVSA GSQPDVYMLW
 TDGAARVMPA WELYLGNYTI PAVFWVAVML GILVLLVLT PFIERKFTGD DAHNNLLQRP
 RDVPVRTSLG VMALVFYILL TVSGGNDVYA MQFHVSLNAM TWIGRIGLIV GPAIAYFITY
 RLCIGLQRSD REVLEHGIET GIIKQMPNGA FIEVHQPLGP VDDHGHPIPL PYAGAAVPKQ
 MNQLGYAEVE TRGGFFGPD EDIRAKAKEI EHANHIEAN TLRALNEANI ERDKNEGKN

> RXA02179 (1-828, translated) 276 residues
 MTTRTVISDP ADPRLDDVRD LNHSDSRPDL PGGKGLVVAE GPLVVGRLLS SRYPVRAIVG
 FKNKLDNFLD SIDASLVEGI PVYEVSRLL AEVAGFDMHR GLLATADRTE EASVAQVLEN
 ARTVVVLEGV GDHENIGSMF RNAAGMGVDA ILFGNGCADP LYRRVVRVSM GHVLRPLFAH
 LEGTYTTWQR SLEQLKEAGF HVLSTPDPE AEHLEDALAG KDKVALLVGA EGPGLTEHAM
 RATDVRARIP MAPGTDSLNL ATSAIAFYE RDRSQR

> RXA02190 (1-1458, translated) 486 residues
 MPTNNAPQVA INDIGSAEDF LAAIDATIKY FNDGDIVEGT VVKVDRDEV LLDIGYKTEGV
 IPSRELSIKH DVDPDEVVEV GDQIDALVLT KEDKEGRLL SKKRAQYERA WGAIEELKEK
 DEPVTGTVIE VVKGGLIID IGLRGFLPASL VEMRRVRDL PYIGQELEAK IELDKNRNN
 VVLSRRAFLE QTQSEVRSEF LHQLQKGQVR KGVVSSIVNF GAFVDLGGVD GLVHVSELSW
 KHIDHPSEVV TVGDEVTFEV LEVDLDRERV SLSLKATQED PWRVFARHTA VQIVPGKVT
 KLVPFAGFVR VEEGIEGLVH ISELAQRHVE VPDQVVAVGE EVMVKVIDID LERRRISLSL
 KQADEDYTEE FDPISKYGMAD SYDEQGNIFY PEGFDAETNE WLEGFDEQRQ AWEARYAESE
 RRFTAHTAQI ERRRQQAEEA AAEAPAGNYS TDSAEDAPAA EAVEESAGSL ASDEQLAALR
 EKLGN

> RXA02241 (1-2028, translated) 676 residues
 VARVLPLLGL PHLDRLFDYR ISEDQHDDVQ PGVRVRVRF GRLVDAIVMS RTAQTSHGK
 LMWLDRLVSP IIVVYPPQTAK LIEQLSDRYG GVRSDLIRSA LPARHAGAE ADTSTSWESL
 GEVKEPDLSS WSAYQHGSF VDAVLAGTTA RASWQIAPGD DWALALASLA VKVVDGSGGA
 LLVVPDQDRL DRLEAALRGL VAAKQITVLN SGLGPQARYR RFLSVLSGQG RLIIGTRSAA
 FAPVKDLKLA VILNDGDDNL VDPAPYAH A REVLTTRSSL EASSLIAGH ARTAETQLLV
 ESGWMHNLIA PRDTIRTRMP RIQAVGDSDF QMERDPMARS ARLPGIAFHA VRSALERDQP
 ALIQVPRKGY VPTLACGNCR TPACRHCNG PVGLPQGSSD LAGVPTCRWC GRPDSRFKQC
 NCGSPKLRAV VLGTERTAE LGRAPPSVRV ITSGGNKVVD SVENRASIVV STPGAEPFVA
 NSPERPEKSE KPEHKGAYGA LLLLDTWALM GRQDLRAME ALHKWAAAAT LVHSHLHQGQ
 VIVVADPSFP AVQSLIRWDM AGAAAQELAS RREVMFPPSV HMAAIDGATA ALESFLDLAE
 LPDHAENVLGP VDLPPGVSLP GEYDEQRFEP QRLLIRTPL GPRSELGRAL RSAQVARAVR
 KNDLPLRIQM DPIHIG

> RXA02293 (1-2388, translated) 796 residues
 MSSRIGNFLI NRISTGLPVE NIIPHLQEF SAGPKNLVIQ APPGTGKTTL LPPLVANILC
 NEGAGNATPT KVLVTAPRRV AVRAAARLA QLDDSQLGTK VGFSVRGEHI SGSHVQFMT
 GVLIRQLLNN PELPGIGAVI IDEVHERQLD SDLLGLMLAE LSQLRDDFSL IAMSATLDS
 KFANLLDAQV LSVEAPIFPL DISYAPARAP RLNAKGVWD FLDHMAQKTH DAVTHSEHSA
 LIFVPGVREI DRVMSTLKS L GHNNVFPLHG QLSPTQDRA LAPSQQRII VSTPVAESSL
 TVPGVRIGVD SGLSRSPKRD SARGMTGLIT SSCAQASAGQ RAGRAGREGP QGIIRCYSEE
 DFSHFPRFVT PEISSADLTQ AALWLAQWGT SPADLPLLDQ PPHAAWTAAQ QILRLIGALE
 GDAITSLGHR LSTLPLCPQL SASLLRFGEQ SAKILAVVSE NPQGDVEKQQ PDKREVERLR
 RLAPASVGKA SAGQIVGAFF PQLIGRKIDN GEYLLASGTR ARLMDSLDK AEWISVAAIN
 RSQNSAIIRA AARISEDDAI DIIGVVEETR AIFVNGKVQA RKVKAAGAIE LSSTPTKPTP
 AEASETIATA LAKGGIDLFI FSDKAASLRD RLKFIHEHRG EPWPDITAD PHLWLSPEIE
 ALSHGTRLNN IDMPALQRL LPWPEATNFE EFAPSHLSVP SGNQHRDLDS SGRPVIKVKL
 QECFGLLESP QLCGIPVQFH LLSPAGRPLA VTDDLRSFWS GPYSQVRAEM RGRYPKHPWP
 EDPWTAPATA RTKNRM

> RXA02357 (1-1203, translated) 401 residues
 NSSRPEEITD LSAVPDWTFL EKRPELTLGS QLELRFVRL RRALKNRHAK LVDRVNGSNS

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YVDIEMSSGV RWRMSEQVDR GYTRPDFWFE PLNGNYPTVA VFTDGAAFIH SSANYRLDGD
IQKRMKLALD PDNLPWNIT SLDLDRFSNP AAQGEPAWF SPIGRQLSKA NLILDQSTA
LLAATPMDQL LAFLDNPAAS SWKEFAHIAA AHMLGHNPK NGDGIVGTFR NKISLRATMV
NRELARQLW LAPTTPEELE VDTWTAFLNL ANLMWLAPES VYVSTNGSPH KIDIVPAPAA
PLVVEVPWLW APILDGFTAD EDEEAEGALQ ILAKEHALVP ETTGDELSSI PTIATWPSVK
IALLYESDPD EPLEDDLKAE GTWLLFANDL ETS DIPALR P

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> RXA02359 (1-1869, translated) 623 residues
VELPSPGEAL AHAGHTPEVL EAELGIDPAA TRIVLELASE DDIAAALPSS PTWEKDALIG
LVAGLSIEDI RESLAIPAPS TEPDTRSED TRLIAGLKTPA AQMDFAYLDT PNSNDLRRVI
ETEGFDSWRV YIDPSQRS LV TRNFSGSGRV FGGAGTGKTV VVVHRANRLV TSDGHLETDD
KTPRVLLTTY TRGLADALKS SMNALNPTFP EAEKPGSPGL WISGIDALAN KVVALANTAE
REAATTAILG RAAGRITPFI GNQE QEFWID AIISADPGDL SEEISNTEFL AQEFETVILA
RGITQEKDYL RAPRPGRGTP LNRVQRKKVW AIIQQFMTSC AREGKMSWPA LSSIAANILE
QRAAAGQGR L FDHVLIDEAQ DFHAGHWLLL RAAVAEGPND IFLAEDSHQR IYQHHVLSR
FGISTRGRAS KRLTLNYRTT AENLSYALGM LTGEWTD AEG ETD TIEHYRS ARKGPKPHLY
QFESETDEFE AIAELIKVWQ DRTTDVRIGI LARTRPLINR VVNALSEQGI DAVKTQNAEL
AAHETVSVMT MHGAKGMEFT HVILIGMGRD LIPLQYTMQG LGEAERND AQ QRERSLLYVA
ASRARDALVL THTPESELL PRV

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> RXA02363 (1-4800, translated) 1600 residues
MSNAPKKSFS DFFSPLATET ETTITLSAIE VEKVNKTEV TRNIDPVEAA EQISRDRYRRY
LKTILSPSNK TIAAEFNREI DESENLYGIP ILQLTPPYAP GKSPAQLIDE GVLSPNFSRL
DAALPKDRPL YQHQEDALRK IASGRNLIVS TGTGSGKTES FLIPFDQLL RQQQAGELNP
GVRALLLYPM NALANDQEK R LRELLADTPE ITFGRYTGDT KOTREEAEKY FKLINGRNAT
PLPNELISRD EMQENPPHIL LTNYAMLEYL LLRPADNAFF DDAYSNNWKF LVLDEAHVYA
GAQGTEVGML MRRLKDRVQR GNPLQCIATS ASLEGTKEAI MTFGQDLFGE PFEFVNEDPS
RQDLVSAHRR KLPKTF TWSL PDELFDQPLE SDGLFQALQE RGGDQYEELS KEEHIVKLRE
LSQQSSSTRVE DIGKGLWPNV TDKASMRH TH MLVNLGSGVL SHDGPV PALS RYHMFVRAVE
GAFLGYTEQG KPIVSLDRQV TLGDTARPMY EMGACIKCGT VHISAHND SG FLVPPENSSN
FDEQQLKWV LTDDFETADI DEDDLETDAD ENVKVLELQK LCTACGKLNG KNSLLCSGCS
SHHDQFIDVK ILEPRNGSQL TCTRCGGREK NLIRRLRTDS NAAPSVLTTS LFQLLPESAD
QDTSRKIGAG RKLLTFSDSR QAAAYAAPYL QASYTRLER RILIELRDE EFTEGASIER
WISRASEVAK NNRVLANNLN PRETLEQTGN WV FADLASTV RSSSTEG LGL AKIELTPEAL
SQLSFRKPLG EMFGDPDAAD AFFNLFAQEF RHKGAINCPD YVNLEDERFG PRRGQHFFTK
DGGRKSTRRL YSWIPQRGTN NRKDFITKVL NRIGQAGDEG ENITLLHLH WNDYTNSEIL
KVPGEKAEGY TLNYSNLQVS PGKQHSWYEC DTCRNTT PFN VLG LCPHGFC KGKLKEIDTF
LPEYATNHYR KLATSLEILP LSAKEHTAQW TPTEAAEVQK EFIEGKINVL SCSTTFELGV
DVGDLQSVMM RNVPPRTANY VQRAGRAGRR SGSAFVLTF AKRSSHDLAV FKNPTQ MIDG
EMTVPF LHN NARIARRHTY SIALAAFFRE QAAQNRFWKK AGEFFLGTD APYLRPAVAE
QEATEILEEF LSPVPNYITE ALRRVPFESL HEDLDIENQG WV KQFLEIFD TTRQEISEDF
QTLKKMQGRA LGSEQGKAD AFKRTIT TLM QD DLLGYLAK KNMLPKYSFP VDTVDLQTNF
SEAGNKVSL RDLQLAITDY APGAELVAGG KLWKSAGIRH LAGKKVETFY WTTCTECKHT
ETSRFGFTSE DVCSQCSAPI SLGKENKFLI PRFGFVADPN PTEVGTAPPV RSSNRLEFVK
QFGVKDDSEE FSNSDGTATA QVLTSSWSRT EMGALETGPN KNGFWYCQTC GFGTPNGAEI
PKSHRNPRTK QCGTYYLEP HSLGHTYQTD IATVAVPSYT NLDFEGWRS G MYAIEAAAE
CLEINRDDLN GTMAKH DNRP TMVLFDTVPG GAGITRKVRE NFPQVLEAAI RRVETCSCGI
DTSCYACLR S FSNQRFHLDL RRDIALDLLH HMAVAMPKSE

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> RXA02369 (1-2289, translated) 763 residues
VPNNKAVEAE ISPSAVLAAE FDRDSLSEKT RVHQLAKRLG MVSKDVVVAL DGIGLVKVAQ
SNLSKEEVEK LLDALSQPVL NAAPAAVPDV EPVEKIRRRV EKNVENEIHQ IEEKVERELA
AVAQPTDFEA AAREEATAEL LEDIVPEITP APVEASVYTP IFVAPAVVPT ENVQD TDDEQ
VRERTARKRR GRRGTGRGRG AEAETVTEVS EEASTSEVEE VNEPIGIGKS TRLEAQRRRR
TEMREENKKR RHVSTQEFM ERRESMERRM IVRERQRHDH PGLVTQVGVL EDDQLVEQFV
TSDAQMSMVG NIYLGRVQNV LPSMEAAFI D IGKGRNGVLY AGEVDWKAAG LGGRGRRIEQ
ALKAGDQVLV QVSKDPLGHK GARLT TQISL AGRYLVVYVP GRSAGISRKL PGP ERKRLKE
ILGRVVPAG GTIIRTA AEG VSEENIAADV NRLHTLWEQI KERTAEKK S RGSKPITMYE
EPDMLVKVIR I DFNEDFTSL IVDGDRAWNT VRAYIQSVAP DLVSRVEHFN RADFDGKDAF
EAFDLNTQLE EALS RKNLP SGGSLIIDRT EAMTVIDVNT GR YTGKGGGN LEETVTLNNI
EAAEEIVRQM RLRDLGGMIV VDFIDMVLPE NQELVLRRLN EALENDRTRH QVSEVTS LGL

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VQMTKRKIGA GLLETFSSPC EHCEGRGIIV HVDPVDTVDE RVEAKAEERS RRHQRSNSTN
KAAAEHPMVV AMRDLVESDE HDLDQEFEEEL AASMIVLDDS DLL

> RXA02370 (1-792, translated) 264 residues
MTPIYYDVDN DKLDEPERIL AESTVEPEEG PRMRARRQRQ ESAADDIAAI AAAAVDIASE
EDPDEPSGSS YVSDFEAEPI APVVEKAAEP VAEPTADYEK ARAEFEASPR RRRKTRGNSR
SDHAPKPEDF APVVEEVAET PVKTPARKAP RRNRPSSELSS GAPSSAPSTR NRRRAVRRQL
VEAPETVVEI APEAAPEQVA EPQVEFDQPD NRRKRRRAVR VTAAPVEKKV ASTSNARAPK
KEPQAASTTN PGRRRRATRR GPRS

> RXA02371 (1-270, translated) 90 residues
MYAIVKTGGK QYKVAEGDLV KVEKIEGEPG ASVALTPVLL VDGADVTTAA DKLASVSVNT
EIVEHTKGPK IKILKYKNKT GYKKRQGHRO

> RXA02389 (1-261, translated) 87 residues
MANIKSQIKR NKTNEKARLR NQAVRSVRT EIRKFNAIE AGDKDAAQAQ LRTASRALDK
AVTKGVFHIN NAANKKSNMA TAFNKL

> RXA02419 (1-192, translated) 64 residues
MKNKTHKGTA KRVKVTGSGK LVREQANRRH LLEGKSSTRT RRLKGIVEVD KADTKRMKRL
LGKA

> RXA02420 (1-381, translated) 127 residues
VARVKRSVNA KKKRREILKS AKGYRGQSR LYRKAKEQWL HSMTYSYRDR RARKSEFRKL
WIQRINAAAR MNGITYNRLI QGLRLAEIEV DRKILADLAV NDFATFSAIC EAKAALPED
VNAPKAA

> RXA02463 (1-114, translated) 38 residues
MTYVHCXGRT GRAGHNGTAV TLVGFXETXK WTXDXNEX

> RXA02468 (1-531, translated) 177 residues
VEITDALEAL GINRTFAIQE YTLPIALDGH DFIGQARTGM GKTYGFGVPL LDRVFDSADV
AETDGTPLAL VIVPTRELAV QVGDDLQRAA TNLPLKIFTF YGGTPYEEQI DALKVGVDV
VGTPGRLLDL HKRGALS LDK VAILVLDEAD EMLDLGFLPD IEKILRALTH QHQTMLF

> RXA02522 (1-543, translated) 181 residues
MWARDINFLY MSTEQELQIG KVVKSHGIRG EVVVELSTDD PDIRFAIGEV LNGKQAGKEH
SLTIDAARMH QGRLLVKFAE VPDRTAADSL RGTRFFAAPL EDEDEDGFI DHELEGLRVI
HEGEDIGEVT GVMHGPAGEI LEVRLTSGKE TLIPFVHAIV PEVDLEEGTA TITPPEGLLD
L

> RXA02533 (1-567, translated) 189 residues
MEDDLSAALV KALFDARTQR RLSISALAES SGVSRAMISR VENAEAQPSA ALLGRLSGAL
GMTLSELIAQ AEGGYDRGAR RSKQSVWTD ATGYTTRAVS QPSESPLLV EVMLPPGAEV
GYPADAYRFM DQVVWVLEGA VRITEGEEVH ELSTGDCLRF GPPRDTDFAN PTTVATRYLV
ALDKRVPR

> RXA02615 (1-636, translated) 212 residues
MQFAQNPRLT NDAVILEPLS HQTQDLQEA VASQELWRHW FVALPTPEGM AEEIDRRLA
HADGLCAPWA IISAATGRAV GMTSFHTLDH ANKRLEIGRT WMAAHVQGTG INPSVKFLQL
QRAFEDLGVN AVEFRTNWHN HRSRAIERL GAKQDGVLRK HRIHPDGTVR DTVIYSITND
EWPVAVKLTLM ERLYRHMVQV IIPNEASLFD AS

> RXA02633 (1-264, translated) 88 residues
MKKDIHPDYH AVVFQDAGTG FQFLTKSTAS SDRTVSWEDG NEYPLIVVDV TSSEHPFWTG
AQRVMDTAGR VEKFERFFGG MARRKKKA

> RXA02635 (1-234, translated) 78 residues
MSAHCQVTGR KPSFGKSVSH SHRRTSRRWN PNVQRRKFYV PSEGRITILT VSTKGLKVID
RDGIEAVVAQ IRARGEKI

> RXA02636 (1-162, translated) 54 residues
MARNDIRPII KLKSTAGTGY TYVTRKNKRN NPDRISLMKY DPVVRKHVEF REER

> RXA02637 (1-303, translated) 101 residues
MAKKSKIAKN EKRKEIVARY AERRAELKAI ISNPNTSDED RLDAQFELNS QPRDAAAVRV
RNRDSDHGRP RGYLRKFGLS RVRMREMAHR GELPGVRKSS W

> RXA02657 (1-3582, translated) 1194 residues
MARLSHMAKQ SSFVHLHNHT EFSMLDGMK IDMLADEVKA QGMPAVGITD HGNMYGSNPF
YRKMTEMGIK PIIGIETYMA PESRFKKERV RWGEPHQKSD DVSGSGAYLH QTMLAENTTG
LRNLFYLSSM ASYEGQLGKW PRMDADIIE HAEGIIATTG CPSGDVQTRL RLGQFDEALE
AAAMWQDIYG RDNYFLELMD HGLDIETVR SELLEIGRKL NLPLPLVTNDC HYVLESQAQA
HEAMLCVQTG KTLHDEDRFK FGGTGYVVK AEQMRALWDD MVPDGCNTL WIAERVQSYD
EIWEEHSHDR MPIADVPEGY TPTTWLHHEV MAGLEDRFSG QQVPEDYIER AEYEISVIDM
KGYPSYFLIV AEIHKHARSI GIRVGPGRGS AAGALVAYAL TITNIDPMEH GLLFERFLNP
ERPSAPDIDI DFDDRRRGEM IRYAADRWGE DKIAQVITFG TVKTKQALKD SARVQMGQPG
YQIADRVIKE LPPAIMAKDI PLSGITDPDH PRFNEAGAVR QLIETDPDVK RIYDTARGLE
GVVRQSGVHA CAVIMSSVPL LDCIPMWKRP ADGALITGWD YPACEAIGLL KMDFLGLRNL
TVIGDAIENI KANRDGEVLD LENLAIEDEE TYKLLGRGET LGVFQLDGGG MQELLKRMQP
TGFNDIVAAL ALYRPGPMGV NAHWYADRK NGRKPITPIH PELEEALIEI LGETYGLIVY
QEQIMRISQK VANYTAGQAD GFRKAMGKKK PEVLEKEFAN FEGGMKANGY SDAAIKTLWD
TILPFAGYAF NKSHAAGYGL VSFWTAYLKA HYAPEYMAAL LTSVGDNDKDK SAIYLSDCRH
LGIIRVLPDI NESSLNPLPV GTDIRYGLGA IRNVGAEVVD SILDTRKEKG LFKDFS DYLD
KIDTLPCNKR ITESLIKGA FDSLGHARKG LMLVFEDAVD SVIATKKAAD KGQFDLFAAF
DSDNNDDVAS FFQITVPDDE WDRKHELALE REMGLGLVSG HPLDGYEDAI AAQVDTALT
IVAGELKHGA EVTVGGIISG VDRRFSKKDG SPWAIVTIED HNGASVELLV FNKVYSIVGS
MIVEDNIILA KAHISIRDDR MSLEFCDDL RV PELGPGNGQG LPLRLSMRTD QCTMSNIAKL
KQVLVDNKGE SDVYLNLDIG DNSTVMILGD HLRVNRSASL MGD LKATMGP GILG

> RXA02682 (1-327, translated) 109 residues
MSYHDHSDIE YLKKIGANSP DAFKAFVHFD EAALRGPNKK IPRNYTEMIA LAVAFTTQCA
YCIDIHTAAA KKEGVTTTEL AEVALIAAAL RAGGAMTHGA LAMKLYDEN

> RXA02752 (1-495, translated) 165 residues
MAVKIKLQRL GKIRTPHYRV VIADARTKRD GKVIENIGIY EPKAEPSVIK INSERAQHWL
SVGAQPTAEV AALLKVTGDW QKFKGIEGAE GTLRVAEPPK SKLELFNQAL SEANNNGPTAE
AITEKKKKAR EDKEAKEAAE KAAAEKAAAA ESEEAPAEAA AAEEA

> RXA02755 (1-1995, translated) 665 residues
MSAPESPTNT TPDPLNASTE ELLTAAVEAL GGARRAGQEA MAKAVTKAFD TERHLAVQAG
TGTGKSLAYL VPSIRHAQKS DSTVIVSTAT IALQRQLVNR DLPRLVDALE PLMERRPTFA
IMKGRSNLYC MNKVARQEEL NQEDALIEQE DISWLGKHIV RLNEWANETE TGDRDDLDPG
VPDLAWKQVS VTARECIGAS RCPHGEDCFA EIARGKAKEA DVVVTNHALL AIDALSDVSV
LPEHDVVVID EAHELDGRIT AVASAEITVN SLNLAARRAS KLDSDKREER VQEIAGDLET
LLQTMQPGRW NDMDEGSKGT LVALKDALWA LRAQIAGAPE GEAANDPERF AERQNLNHL
MEIHDANVRI LEVFAEEDPS KQYDVVWHNH DRRGDSLNV APLSVAGLLH EKLFAENTVV
LASATLTIGG NFNAMAASWG LPKGSWDSMD AGTPFDPAKS GILYTARHLP DPGRDGLPEE
TLDEIYELIT AAGGRTLGLF SSKRAAEQAT KAMRLRLPFD VLCQGDNTA ALVKKFSDSE
NTCLFGTLTL WQGVDPVGRS LSLVLIDRIP FPRPDDPLLQ ARKEAADAEG RNFMEVAAT
HAALLMAQGA GRLLRHVGDR GVVAVLDHRL STKRYGGFLR FSMPRFWETT NPETVRAALK
RLVTK

> RXA02764 (1-2784, translated) 928 residues
MSEYKPPIPS DPQVRLIKPT SKLRPRSWEG EVSHLVKQGT GLWRVTGEAG SGVSSAVVDT
VLERIRQWE PSSMLVVATS KEAASRLRQE ISESVAQMDY VSEGPLVRSV HSVAFALIRD
ASDDDVRLIT GAEQDAVIRE LLRGHADDGR GGWPQEQREG LRMVGFARQL RDFLLRAVER
GVGPDELVEL GERFERANWV AAGEFLREYK QVMKLSGAHS FSASELVTEA LRGPEPSVKY
RGVFIDDAQH LDPKSAELVS RFFPEAEALV VAGDPQQSVF RFRGANPDFL TKLSVDHEV
LKGRRKASTS IVVAETESAH ADLLADTVRR AHLIDGRSWS EIAVIVRSAG MIAPWRTL
AAGVPVHISP TDVVLAEQRI VAAMILGLRA LTESLNAIEL EDLLLGPIGG ADPVTLRRL
RGLRQAEMKM GGQRRRAIEVL RSLLAESDAE MLGFLTREL NLLERVSVL EAGREALAEH

GSIEEVLWAL WSATDLSNSL SAISLRGGAS GSQADRLDA MMALFDAAGD YVERYPSAGV
RSFILHISEQ ELPTGMRERR GAIPEAVEVL TAHATTGREW KRVIVAEVQE GSWPSLGETG
TLLGQEEFVD LVDEGIDPDI IISRSAERLA EERRLFYLAT TRSTESLLVT AVNSPDSDEV
REPSRFLELL SQPIVVLEGE EASAIAPPEE IGHRLLSIPA MVAELRRVFN DPRDPRRKQA
ARQLSRLAEA GIPGANPAEW TNLRTPSTDE ELIKGAVSLS PSRIEQLLNC PLRAVLDRLD
SEEETPIAML KGTLVHAFAE AVAGGVDAAL AEEKVTSAYM QLANVPSWSR ESTEIAFRRI
LSRTDTWLKT SRADFTVGT EMDVSVTIDD SVSIRGRMDR LERNKSGELV VVDFKTGKTO
IAAKDMGDHP QLFAYQLALS KGV LHGDK

> RXA02785 (1-3855, translated) 1285 residues

PVSYPLVEDI EVVLDTIATA QHEDDYAQLC FRVFCEKVWL CEADLHAAIS AYAADHLTAA
ILQHAADSTP LSRRDQDEV T ALPELVLGAT ARILGEVKAA EFISHALAAM AFVRAEYGV
AAWGA KRLPG VETHLWVREV SRIDRALGVG DEQSMFRWSD DGPAEDANTQ QWLPACYCRS
CGRSGWMVSL EQGTNIPVLE EQKIRLNSFE QPHKQALLD ATSEQRAAIE QGRSVAGPRG
VDGTS AVLWF HSASNELSTR QPSPEEQSG SSI AVLTHFG PEADDLSAQ TPCSCGDVDS
IRYIGSGIST LLSVSLSNLF GMADLDSA EK KTLVFADSVQ DAAHRAGYVQ ARSRAFALRT
YTRRAVG DNE VTLPSISRAL MDNATSGRTR YELLPPDLTD LDIYKPYWHP DASKAERREA
SRNVHKRLSF DLALFEGQRA DLPRSLALTG ALSAFVDLPK GVALSAAAEA LYAIEVPTLD
IEDENLRLRW VQGALELLRA RGGINHEWFG AYLRTDGNPY MLNRRQARAE GIPGFVRGGA
PEFPRVGSAL SGSLRSSTGT TPLGSPRGY ASWTSQVLGI STHDAATAIT KLFDALS NRS
ILSSISTDSG GKIYCLEAER IRIFSEDHPE VLECSVCHAQ TGVTDHVRDF LDGAPCFSPS
CGGV LHIEEV EDNYRRLYS AIEPRTVIAR EHTSMLKKKD RLALQSF RG GEGSAKQSPD
APNVLVATPT LEMGIDIGDL STVMLASLPT SVASYVQVRG RAGRLSGNSL VLAVVRGRGV
TLPRNLQPLS MIKGAITPPV AYLSASEILH RQFLAYVIDC LDTRAELPKL ETAIDVFDNA
AGKTPLVALL KAQIHAGLDP LLEEFVRTLN MQISIDNIFE LRTWASGNST DSSLALLETS
QKEWMEERRS LTARRGELEK IFDKLDARND AHDEELKEEK RKTAASLKAV KLQIRDLLGE
FWIAALERYG LLPNFTLVDD SVELNVAVTS FNPQEVFDT KNHAYSRGIS AALFELAPGA
TFYAQGIAAK VDSIEIGE HG SAIEQWRLCP VCSHSEILQP GVSTPGSCPT CGSPAFADKG
QILEVVQMRK VSSAVEKTRA AISDDREDRF STRFNQHVSE VVPPDGHGKS WYLN DGFIE
HLPKVELRWL NLGIGNGQKR RLGGFEVTSF LFNVCRHCGH LDSEAGANSR WDHRPWCPHR
YEQKEDTVSF ALGRTLKTQG VLMLLPEYFG SEADSMVVT S LIAAIKLGR EVLGGDPDHL
DVTSVQVPRT SGD GALLDALL LHDQV

> RXA02819 (1-612, translated) 204 residues

KLQIGDVIA M PGRKRPVLAV VMT PANQSRD PRPWVTTESG WSGRVDAESF TNPPITIGHM
RLPRQAIEEP RRNARRVQEL FRREHFKRPN KMREFARVRP NEAVTKLRNA IRDHEAHHWP
DREHLARTAE RMIRKERDLA KLTGNVDKAR ETLGRTFERI LSLLSEMDYV DYSNPDNPVI
TDEGERLAKI HSEADLLVAQ CLKR

> RXA02826 (1-399, translated) 133 residues

MAPKKKKKVT GLIKLQIQAG QANPAPPVGP ELGAHGVNIM EFCKAYNAAT ENQRGNVVPV
EITVYEDRSF DFKLKTTPAA KLLLKAAGLQ KSGVPHTQK VGKVSMAQVR EIPATKNEDL
TLAISTLLRR SSL

> RXA02833 (1-579, translated) 193 residues

TRVLSLRMGR SFSLAVSVEP EQEIPKPQLK QEFKYQPDAL VFSSNKAPKQ YEVGGRGEAS
TSDGWEGTHS APAPEPHAP IADREPELAT PQRIPRETPA HNP NREVSLN PKYTFESFVI
GPFNRFANAA AVAVAESP AK AFNPLFISGG SGLGKTHLLH AVGNYAQELQ PGPRIKYVSS
EEYHQRLHQL RAR

> RXA02883 (1-912, translated) 304 residues

MSFHITSVNV NGIRAAVKQR SETNLGFLPW LEETRPDVVL LQEV RASEKD TATALQPALD
NGWHYIGAPA AAKGRAGVGI LSRHELEDVN IGFGSFLDSG RYIEATIKDT TLDVPVTVAS
LYLP SG SAGT DKQDEKYRFL DEFEGFLDQR AKERSH MVIG GDWNICHRE DLKNWKTNQK
KSGFLPDERA FMDSVFGTFP DEATQVAGAG DFFGAVDYEG TRRREATTD P AWFDVARRLQ
PEGDGPYTWV TYRGKAFDTG AGWRIDYQAA TAAMLERAE SWVDKAAAYD LRWSDHSPLN
VIYS

>RXN00061 TRANSLATE of: rxn00061.seq check: 8093 from: 1 to: 2667
VTEKTDQTLMLIDGHSM AFRAFFALPAENFSTSGGQATNAVYGFLSMLSTLLKDEQPTHV
AVAFDVGRKTFRTDMFPAYKAQREATPPEFKGQVEILKEVLSTLGITTIEKIDFEADDVI

ATLSVAAKPLGFKTLIVTGD RDSFQLVNDTTTTVLYPMKGVSVLHRFTPEAVEEKEYGLTPR
 QYPEFAALRGDPSDNLPNIPGVGEKTATKWIAQYETLDNLLDHADEIKGKVGASLRERIE
 QVRMNRKLTEMVKDLELPLGPDDFEMKPVQVAEVA AKFDDLEFGTNLRERVLA VVKAEGS
 AAPVEEVEAEQVVVD TQSLAQWL PARAGQALALALAGVAKPAAGDTYALAIADTKRHA VL
 VDVA DISAEDEKALATWLASEDPKMLHGAKAAYHMLAGRGFELHGVVHDTAIAAYLLRPG
 QRTYELADVYQRHLQRQLSTNDNGGQLTLLDAADDQSLVDDVIAILELSEELTKQLQEIQ
 AFELYHDLEIPLSGILARME AIGIAVDVATLEEQLKTFIGQVAQEEEAARELAEDPTLNL
 SSPKQLQVVLFETFGMPKTKKTKTGYSTAAAEIEALAIKNPHPFLDHL LAHRQYQKMKT T
 LEGLIREVAPDGRIHTTFNQTVASTGRLSSTDPNLQNI PV RTEAGRKIRSGFVVGE GYET
 LLTADYSQIEMRVM AHLSDQDPLIEAYREGEDLHNYVGSKVFNVPIDGVTPELRRQVKAM
 SYGLVYGLSAFGLSQQLSIPAGEAKQIMESYFERFGGVQRYLREIVEEARKAGYTETLFG
 RRRYLPELTSDNRVARENAERAALNAPIQGTAADI IKVAMIRVDRSLKEAAVKS RVLLQV
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>RXN00066 TRANSLATE of: rxn00066.seq check: 6030 from: 1 to: 813
 VTDPLSAALDSGRINHAYLFSGPRGCGKTSSARILARSLNLCVEGPTSTPCGVCNCSVALA
 PGGPGTLDVTELD AASNNGVDDMREL RERANYAPAESRYRVFIIDEAHMISTQGFNALLK
 IVEEPPAHLIFIFATTEPDKMIGTIRSRTHNYPFRLLTPGDMRKVLKNAVDGEGVHDDS
 VYPLVIRAGGGSPRDSLSILDQLIAGSGPEGLTYERALPLLGVTSFTLIDDSIHALASKD
 NASMFTTIDNVIEEGLEPRRFTIDFLSTRSG

>RXN00103 TRANSLATE of: rxn00103.seq check: 3594 from: 1 to: 4560
 MAKSI LSRFRPQVAEWF RDVFASPTPVQEGTWEAVSKGKNALVVAPTGS GKTAAFLWAL
 DSLTEQTGQQVLD TGTPVPVRGGKV KVL YISPLKALGVDVENNL RAPLTGIARTASRMGL
 DVPNITVAVRSGDTPSAERARQVRKPPDILITTPESAYLMLTSKAGATLSDVDVVIDEI
 HAMAGTKRGVHLALT LERLEKLVGRPVQVRVGLSATVRPLETVAGFLGGGRPV EIVAPP AE
 KKWDLTVTPVEDMSDLPVQEPGSTIGELVMDDPLGITGESALPTQGSIWPHIEQQVYNQ
 VMSAKSTIVFVNSRRSAERLT SRLNEIWAMEHDPESLSPQLRRDPAQIMSSADVAGAPQ
 VIARAHGHSVSKDERATTETMLKEGRLRAVISTSSLELGIDMGAVDLVIQVESPPSVASG
 LQRVGRAGHTVGATSIGSFYPKHRSDLVQTAVTVQRMKEGLIEEIHVPKNALDVL AQQT V
 AAVSIKDVQVDEWYETIRKAYPYRDLAREVFDSVIDLVSGVYPSTDFAE LKPRVVYDRVS
 GVLEGRPGSQRVAVTSGGTIPDRGMFGVFLVGDGPRRVGELDEEMVYESRVGDVETLGAS
 SWRIEEITRDQVLVTPAPGHTGRLPFWTGDAAGRPAELGKALGAFFRRSTLTDPSSSGLEG
 WAHDNLIAFLQEQEESTGVLPDEKTLVLERFKDELGDWRIVLHTPYGRGVNAAWALAVGA
 KIAEETGMDAQAVAGDDGIVLRLPEGDEDP SAALFMFEAEIEIETLVTEQVGNSALFASRF
 RECAARALLPRRNPGKRAPLWQQORQAAQLLDVARKYPSFPPIILETVRECLQDVYDLPA
 LKNLIEDLQRLKVRIAEVT TQQPSPFASALLFN YTGAFMYEGDSP LAEKRAAALALDPAL
 LAKLLGEVELRQLLDPDIIAEVHQQLRRQGDRAARNNEELADSLRILGPIPLDELGEHIT
 FENPDLED RAMTVRINGREHLAQVLDAPLLRDALGVPVPPGVP AQVETITDALEQLVNRW
 VTRTRGPFTANDLAEAFGLGIATAITALQSAPVIEGRYRQGV DVQEYCATEVLSIIRRRSL
 AAARKQTRPVQS AFARFLLDWQQIAPVGATPELRGVDGTYTVIEQLAGVRLPASAWEDL
 VLPRRVADYSPIHDELTSNGEVLIVGAGQAGSRDPWISLLPVDYAAQLVGEASTSMSPL
 QDAVLDQLRAGGAFLFSDILEENFGYT TAQLQEAMWGLVEAGLVSPDSFAPIRARLASGT
 TAHRAKRRPARSRLRTRTSFASDVPPDMRGRWTL SVQPADATSRSVAHGEGWLD RYGVLT
 RGSVVAEDIVGGFALAYKVLSGFEESGKAMRGYFIEGLGAAQFSTPAIIDRLRGHDDSPD
 VEGWP SGATDPD VYLIAAADPANPYGAALPWPEQGPSRAAGAMVVLCDGLLLAHLTRGGR
 TLTVFSDNIPKIATALITYERLTVEKINGDNVFDSP LLEQFRKHGATITPKGMRFRPPVA
 RETPSDTLPTRTFRGGFGRR

>RXN00163 TRANSLATE of: rxn00163.seq check: 899 from: 1 to: 618
 MKLLLASNNAKKLKELQRILDQAGLDSVELLALRDVEAYDEPIEDGRTFADNAQIKARAG
 VHTGTIATIADDSGIAVEELNGMPGVLSARW SGAGHNDTANNELLLAQMEHVPDERRNAA
 FVSVCVLALPDGQEFVQEGRWEGQLLRGPKGENGFYDPLFIPAE EIDGQRSSAELSAE
 EKDALSHRQALRGLVEKIAQVAAAS

>RXN00407 TRANSLATE of: rxn00407.seq check: 2077 from: 1 to: 2664
 MVAEHAAGDWVVL AGFQWLDKIDYVIDCFK PENIVLEFGSTMT PEDADRNEYLRRTQAKF
 QLRGILSTNPESAARGSVRLAGAKQALARKMPLADAES ELHPMGTTWMRSGDTLLKAHPD
 YADLIATTVELAAECAFTLDLVAPNLPKWDTPGEHTEMSWLAHLVSTRIDTRYVGRSADI
 KARAATQIDYELGVIEKLGFPGYFLVVNDLVEFCRDSNILCQGRGSAANS AVCFVLGITN

AEPISAGLLFERFLSPDRDGPPDIDIDIESGRREEVIQYVYEKYGRDNAAQVANVITYRT
 KGAMRDAARALGYPOGAADAWAKGTSEPPDDVLELAAQFKGQPRHLGIHSGGMVICDRPI
 ADVVPVEWARMDNRSVVQWDKDDCATAGLVKFDLLGLGMLEAIHHMLDLVAEHRGKKINL
 WELDIAEPEVYDMLCKADAVGVFQVESRAQLSTLPRLKPRTFFDLVVEVALIRPGPIQGG
 SVHPYLRRRAGEEAITYDHPVLEKSLGKTLGIPLFQEQLMQVAVDAAGFSGGEADSLRRA
 MGSKRSPERMAALRSRFFQGLKDTNGIVGETAEKLWNKIVAFAAAYGFPESHQSFSASLVY
 FSAWFKYHYPAEFCVGLLRAQPMGFYSPQSLISDARRHGVSIPLITVNDSGVEADAPNGA
 IRLGLNLVKGGLGHDAQRIEDNAPFDSIPDLRRADLNVAQVEALARAGAVDCLGVGRRO
 ALWQAGVAATEKPGMLPGLSVIEAPALPGMSAFELMATNISATGVTADYQPMALIRERME
 ELGIVPADRLLEVEDGTRLRIAGIVTHRQRPQTASGLTFLGMEDETGLMNMVMSVGLWQR
 QRVLARNAKALIIRGIVQNAQGVATVVADRLEPLDMGEFLSRGSRDFR

>RXN00414 TRANSLATE of: rxn00414.seq check: 6909 from: 1 to: 354
 MQGEASVPFAELHATSSYNFLTASDPDSDVVVQAKKLGLAALSVMDDRGFYGAVRFAEAA
 AEAGMHTVYGAELSLQEGVLTVLCKNPEGYKKLSHLISDAKMAREKRGSSLSAAANGC

>RXN00460 TRANSLATE of: rxn00460.seq check: 909 from: 1 to: 471
 MPEHPLHVIFDNPIPPNTGNAIRMCAGTGAHLHLVEPLGFELTEKHLRRAGLDYHDLAD
 VTVHATFDEAMAAVPGRVFAFTTTANTRFTDIAFEPGDALLFGTEPTGLPQEHVEHSRIT
 SELRIPMLPGRRSMNLSNSAAVATYEAWRQLGFVGGV

>RXN00542 TRANSLATE of: rxn00542.seq check: 3719 from: 1 to: 675
 MAIGDTNITVVGNIADPELRFTPSGAAVANFRIASTPRSFNRQTNQWEDGEALFLTIVNV
 WRQAAENVAESLSKGMRVIVTGRLLKQRSYETREGEKRSVFEVEADEVGPSLTFKADVQR
 TPRGGNSGGNYGGGNGQGGGLGNGQGNQGGGFSNQNSGGFGGNQGNQQQSNQGGFGGNQNG
 SQGNFNFQGGFGGGSPQAAPDNDPWNAPPAGSGGFGGADDEPPF

>RXN00545 TRANSLATE of: rxn00545.seq check: 1627 from: 1 to: 267
 MIILDPSQDERTVAPSLDKFLEVVRKDKGDVVKVDVWVGKRRLAYPIDKKEEGVYAVVDLK
 CESATVLELDRVLNLNDGVLRTKVLRLDK

>RXN00562 TRANSLATE of: rxn00562.seq check: 810 from: 1 to: 723
 MDADPLIEDDVSGAEVKDSSDEPLLALTRYVFDGERPVTRGLFHQVAAILSIVSGSVLS
 TYAWMELVWWQALGVMVYALAMLGLFAVSAAYHRGPWRRLHTVAWWRKADHSTIAVFIAA
 TYTPLCLIVLEPGTAAWMLGIAWGAIDSVIMNMVWINHPRWLSVLVYLALGWLIVPLVP
 QLWSGAGPTVVWLLLAGGIVYSVGALVYGFKWPGRNARVIGYHEHFHFIATIVAAIVHLVA
 V

>RXN00625 TRANSLATE of: rxn00625.seq check: 6900 from: 1 to: 942
 GTDEDYIRVAFIYDQTTVKPVGESRIFDDAAFTGTARQPLAQEFQPLNDSEKSFVGVVNH
 FKSKGSVTRGDADTDGQGNNANVRVAQAQALIDHLENQDDWASKPIFILGDTNSYAKET
 AMTTLYGAGYTNIAEFDAQSYQFSGRIGSLDHALGNEAAMKHVIDAEVWDINADEAIA
 FEYSRRLNNTSDVFENNVERSSDHDPIKVGFNLSSETTEPTIPVEPTDPAEPTDPTTPVKP
 TDPVETDTPSEPTDPAEPTDPAEPTDPEETKKPEEPKNPGSSNGSSQYATIAAIIAAILG
 AIALAFQFFHSSN

>RXN00673 TRANSLATE of: rxn00673.seq check: 3349 from: 1 to: 402
 MPPKARTNARRTGRRVVKKNVANGNAYIKSTFNNTIVSITDTNGAVISWASSGHVGFKGS
 RKSTPFAAQMAAENAARKAMDHGMKKVDVFKVKGPGSGRETAIRSLQAAGLEIGSISDVTP
 QPHNGCRPPKRRRV

>RXN00706 TRANSLATE of: rxn00706.seq check: 3516 from: 1 to: 573
 MTENYIPRLKTRYQDEIRTKLQGEFEFENVMQIPGVTKIVVNMVGVDAARDSKLINGAIE
 DLTAITGQKPLRRAKKSIAFKLREGMPIGAKVTLRGDRMWEFLDRLLTVALPRIRDFR
 GLSDQQFDGHHNYTFGLTEQTMFYEIDVDKIDRPRGMDITVVTAVTDDEGRSLRELGF
 PFKGEDGNRQO

>RXN00709 TRANSLATE of: rxn00709.seq check: 7555 from: 1 to: 366
 VIQQESRLKVADNTGAREILCIRVLGGSTRRFAGIGDVIVATVKEATPGGNVKSIGEIVKA

VIVRTKKETRRADGSYISFDENAAVIIKNDNEPRGTRIFGPVARELREKKFMKIVSLAPE
VI

>RXN00714 TRANSLATE of: rxn00714.seq check: 3128 from: 1 to: 561
MATITRTDRLILVPLTVELEDEAHQIYSDSRIWEHRPQARHTNVRVTRDIIKRTNESWGK
KDLGPGVGYLRDRPSEFVGVGGVELIDGKVDLKYRLRPDLWNGYATEISNAATLATKR
IDDSLPLTARVTTNHPASFRIEKLGLTPVWEGRRVGTEDDPNEPDVRIYSDRPLSDEIL
EMLKQRP

>RXN00724 TRANSLATE of: rxn00724.seq check: 5366 from: 1 to: 1977
VGIGDATEGDLVTIVGQVAFKQSYTQSGKMLYKVTVLTETERIGISFFGAKHIPRLLPE
GTRALFTGKVKFFRNEPQLSHPEFIVIPDPGSGRRLTATGGMKSLAAYGDVEEVALRLVD
REYIPIYAGTATMTTWIRIMAAVQRVLETMPVIKEPLSVVPEGMPSFDEAIRGIHDPGHES
PSTFINRLKYNEALSLATVMAIRRADTKNRKAPPMPRALKGHQHMLIDALNFQLTVGQKQ
VIREISADIEQVRPMSRLLQGEVSGSKTIVSLIAMLQAIDSGRQCAMLAPTEVLATQHAR
SLSKTLDDAGLDINVVLLTGSMPTGAKKEALLEIISGDADIVVGTHALIQDTEFFDLGL
VVVDEQHRFGVEQRDQLRTKGREGLTPLLMTATPIPTIAMTVFGDLAVSTLRELPGG
RRPIQTSVIPDHKPGWVKRGWERIGEVLAGRQAYVVCPRIEGEGGVLEIHAYLSEQVYP
GLNVGMLHGRMDTDLKDSVMQEFQAQGEIDILVATTVIEVGIDVANATVMLIREAERFGVS
QIHQLRGRVGRGQHDSLCLLHTTFDEDSPPQGQRLAAISTTTDGFQLSELDLQVRQEGDVL
GTRQSGSDTKLRHLSFISDQKIERALIDATELVAASRSRALELVSDIAMINQEYLEKS

>RXN00790 TRANSLATE of: rxn00790.seq check: 8140 from: 1 to: 1062
MSVQLTCPTDIIRNRPTPLKDGDRVIVYGKPAFYAGRGTFSLWVTDIRPVGIGELLARIE
ELRKRLAAEGLFDPARKKRLPFLPNRVGLITGRGSAERDVLSVAKDRWPEVQFEVINTA
VQGASAVPEIIIEALRVLDQDPRVDVII IARGGGSVEDLLPFSEEALQRAVAAAQTPVVS
IGHEPDPVLNDVNADLRAATPTDAKRVPDVAERMLINQLRSRSAAALRGWVQREQQA
LAAIRTRPVLADPMTPINRRRDEIAQAVGLIRRDVTHLVRTEQALVASLRAQVSAALGPSA
TLARGYSVVQVIPRDGSAPEVVTIEQSPPGSQLRIRVADGSITAASMGTOQAN

>RXN00807 TRANSLATE of: rxn00807.seq check: 4862 from: 1 to: 1242
VFDLAGSKTVSKTLFDAASSARALVRARTTERARARAQHNPAMIHDSGFAQSWLFTGP
PGSGRSVAAKVFAATLVCSNPDPVVGCGCEDCRAAMGGSHPDIEHIVPQQLSIGVDAARE
VIKAAAVSPVAGNWRVVI FENADRLTMAANALLKTVEEPTTESTVMILCAPTTDPRDIAI
TLRSRCHLYIPTPSIAEVARILVAEGNVSQADAELAAAASGAHIGRARYLAHNNAQRR
RASILNLAELIFHGDVAFRSVNTLVKVMVETEAKDSNKEKEEGDLEAVRISLGMGAKGKV
HKAVRGAGDFKALEDQQLRRTRFLRDSLALVLDLAGIYRDIIISSQAQVGLTHPDM
EGLSQELATKVSQEGLLACLDIAISKRESFGFNVRPIVAMDALVGRRLRKAYKVS

>RXN00817 TRANSLATE of: rxn00817.seq check: 6901 from: 1 to: 2394
LTPPDFESEKTQAMRPSFGEELAAIVSKRYSESTLTHMVTLPASKAKYVDWPSWVPASLR
DALVNRGINKLFSHQEQTAHLAWNQHVVVATGTSSGKSLGYQLPILSALGTDPTACALY
LPTPKALGSDQLTSTSTLLRDIPDFHPINPAPYDGTDPSEARSGIRDLSRFVFTNPDMVH
ASMLANHPRWARLLRHLKFIVIDECHAYRGVFGANVSMVLRLLRIAIFYGSHPTVILAS
ATSSDPEIHASRLLGAPVKAVTEDGAPTERTVLLWEPGFIEGAEGENGAPVRRRASTE
ANIMATLISEGARTLTFRVSRQAIEIVALRAQEELSTLGRPDFARRVASRAGYLAEDRR
RLERLLDDGTLGLGVASTNALELGIDVGGGLDAVVTAGFPGTVASFWQQAGRAGRRGQGS
VLVARDEPMDTYLVHHPAALLEKPVEAAVFDPTNPHVIRGHVYCAAVEKPLTEAEVAAFG
AQKVVEKLEIEGLLRKRPRGWFAVEKPMSEDPDELSPDSAHQVQVSLRGGSGSEFMIVDIT
DGRLLGTIDSAMQSQTHPGAVYLHQGESFVIDELDLEENLALARPELDPYTTYARSDTD
IRITSAPLEDEVFDAGGGLWVANVEVQVTDRTVGYVTRLSDGTTLDATPLYLPPQILQTR
AVAYTIDPLALEAMGIPAADIPGALHAAEHAAIGMLPLLATCDRWDIGGVSTALHADTGY
PTVFVYDGMGGAGFADTGFRFAQWIEATFEVVRSCSCSGCPCSCVQSPKCGNGNNPLD
KAGAIKLLGAMVTLLGTS

>RXN00890 TRANSLATE of: rxn00890.seq check: 1452 from: 1 to: 1299
LSIATVVALLFSGLLGAVESALSSVSRARVEQMLKDEASGSASLLRVIDERALHINMLIM
LRTLLDASAAVFAGAIAVNVMSWANGIVLAIVVVSLLTFAVVGVFGRVGRKNPYSVML
RSVAVLSGLAKILGPIARGLIWIGNIIAPGPGFRNGPYATEVELREMVDIAQEHGIVEIE
ERRMIQSVFDLASTTVRQVMVPRPEMIWIESGKTAGQATALCVRSRHSRIPIVIGENVDDI

IGIVYLKDLVQKTTYATDGGKSVLVDEVMREATFVPDSKSLDALLQEMQEDHKHIAILVD
EYGGVAGLISIEDILEEIVGEIADDEYDAREVAPIEKIGDRTYRVVSRLSLEDLKDHIIEE
LDLEIEFGDEIEDQVDTVGGGLIAFELGRVPLPGATVETCGLKLTAEGAKNRRGRRLMHSA
VVEVGEPSEDNEG

>RXN00897 TRANSLATE of: rxn00897.seq check: 6537 from: 1 to: 1005
MTPSLPRFRSQKPAVGDRVVARRRIPGANVHWDVIGHVIGVDPLVVRPQSVGGMPSDAE
EIVIPDDQLEVIKILSPRTIRNSDIRAVEVATAKAFPLVNEWDGWLRLRAGDGIASRN
SASPLGPSVGSEPPMEDISRFYARHDLPVKLHPIERIGRPAQKVIDADPQKWVMGPEIL
VMTKSLDHVESHELPGGLEFSVDKQPDQEWLGMVHFRGQALPAHALELLRTQIEGRMGFG
RLTTPAGQTVAITRATITAAEERIFLGYSAVEVDPAFRROGLGTALGSRIQEWGAEQHAQ
EAYLQVVAHNEAGIGLYQKLGSEHHRHRYAERKF

>RXN00990 TRANSLATE of: rxn00990.seq check: 3149 from: 1 to: 465
IPVLVATDIAARGIDVDDVSLVVHVDPPAEHKAYLHRAGRTARAGTSGTVVTLVMDEQIK
EVRELFQKAGVTAAEVKVNENSPELAKITGARRPSGVALPAPGQQQPKREQKNTHNRS
RGSSRNPRRRQSGSRSTGRSNPRRQTSRKDGPKS

>RXN00994 TRANSLATE of: rxn00994.seq check: 7403 from: 1 to: 351
MTTFLELKLDPDEIVRELRSQGITAEAFPIQEAAIPDALAGKDVLRGPTGSGKTFTFGLPM
ITRLARSGASKPGRPRGLVLVPTRELAAQVRERLDDPARVMGLRVLEVVGGNINRN

>RXN01030 TRANSLATE of: rxn01030.seq check: 392 from: 1 to: 1176
MTSTTQPGTTPELSADTHSEPWDVIENTLEPFQKVVRQFIIDRPYSGIFLTMGGGKTLT
TSLALTYIQPPGHILVVAPLNISRLTWPEEVRKWNIPVNAISLITNERGKTLTRAKRLKL
YEETATTPPTLYITINLLEDIVNYFGDRWPFWTVIIDESQTISDISSKRTRALFSVRPY
IGRLILLTGTPSANKFDSIYAQVAVLDYGASLGDNIDVFRARWCAPDIITDKQVRRWKPA
NKQAEAEVYRTISHLVMSAVNTDIKLPPLHFVDHEVHMSDDEHRDYELFKKDAVLAALLD
MAEENEGGEGADDTDAADSATTPPASSQPTNPAIPAGLLQAIQQTQDTNGRAIPVTTA
ELDHFDLDPVQRQEDLGTLLVVISAVHASDSAA

>RXN01066 TRANSLATE of: rxn01066.seq check: 7389 from: 1 to: 726
MRRDSFRDRALVVKTYDFGEADRIIVLLTRDHGIVRGVAKGVRRSKSRFGSRLQLFVELD
VQLYPGRKLSTISGADTVGYASGIIEDFTRYSCASAILEIATHIAGLENDPHLFEETTR
ALKNIQDSPEPILNLDEFMLRAMNHAGWAPSLFDCAACGRPGPHNAFHHPGVGGAVCLYCR
PPGSAEVPPEALHMMWLAVANGQAARIPREHPEQQTTHQLTTAHLQWHIERKLPTLAVLD
QA

>RXN01343 TRANSLATE of: rxn01343.seq check: 8146 from: 1 to: 708
MSKNSKAYREAAEKIDAGRIYSPLAANLVKETSSKNYDASIDVAIRLGVDPRKADQLVR
GTVSLPNGTGKTVRVAVFAQGEKATEAEAAGADFGTDELVEKIQGGWTDVDAIATPDQ
MAKIGRIARVLGPRGLMPNPKTGTVTNDVAKAIEEVKGGKISFRVDKASNLHAAIGKASF
DAKKLAENYGALLDEIIRIKPSSAKGIYVKRVTLSTTGPGVEVDTHVTKNYAEAA

>RXN01374 TRANSLATE of: rxn01374.seq check: 3251 from: 1 to: 1242
MSESGALSSTDLSLPGVTIEVRDEIWLVTHTVTRSTDGFRVKARGLSDYVRDHEATFFTA
DKDLKVIDPTQVTVSLDDSSNYRRTRLWLEATMRKTPVPLYQESLSVADQMLADPLEYQL
AAVRKTLSSANLRPRVLIADAVGLGKTLEMGMILAEIIRRGGERILVVTPRHIMEQFQQ
EMWTRFAIPLVRLDSVGIQQVRQKLPASRNPFYFPRVIVSMDTLKSPKYRAQLEKVHWD
AVVIDEIHNATNAGTQNNELAGTLGPTAEALILASATPHNGDPESFKEILRLLDPTAVMP
DGTIDAEAAQRLIIRRHNSPEVSGFVGEKWAPRNEPQNFLVAASKEENGVAALNHVWI
SPGASNPIKDRFLFDIGEGFSLPCSLGRNSVQSPQKGLCTRRKTRPRNPFTT

>RXN01378 TRANSLATE of: rxn01378.seq check: 4647 from: 1 to: 1755
VKAFLSSPAALGETVSNRLKKASAPEEKRAETLSQLNSAITPQTSQKYQSLLSYLGDIG
VKKNSDTRVIVFSERVATLHWLQENLIRDLKMPPNSIAVMHGGLPDQEQMRLVDEFKKT
SPIRIMITGDVASEGVNLHTLCHNLVHYDIPWSLIRIQQRNGRIDRYGQTHNPSIVTFL
DPAEDSKVGEVHVLERLMEREHEAHSLLGDAASLMGKHSEERLEEETIREVLGAQNFNDA
VADPAEVLNPAGLDDIDWLLAQIAQADAKAETEAEETENQTAPDAASNSTQHAQRRLY

AQESSFLYDCLEGGFNNVPEDSINRGGVGFKKHDNDIVELTPTDDLRRRLDFLPQDYVAA
RKVKEDLLLASTLMRGQERLNAARTGEDGSTWPSAHYLGPLHPVTSWAADRALATMPRSE
IPAASGKVTEPTVLLMSTLSNRRGQIVSRFVASSGPFDEVLSDPIQWLHSIGLDETAI
NPGTAALPDDIEQLISLAVQAARGEIRPLMIAARAQAQTRVEHWAKRAEAWNNKRSGAAS
TSRTARTAKLIEEQKLSNALEPDRELIRPLAVILPQPATLNTEV

>RXN01380 TRANSLATE of: rxn01380.seq check: 8341 from: 1 to: 2199
LDEGNTVPFIARYRKEITGGDDTQLRDLEERLSYLRELEDRKQSILAAIEEQKLTDDL
RSLILGCDTKARLEDLYLPFKKRRRTKADIAREAGLEGLVDKLIIDAPSLDAAAQAAFTT
EGFEDSKKVLGDGARAILIDRFALDADLVGEVREQMYRAGSMAASVVAGKEQEGAKFKDYF
EFSEPFDKLPISHRILALLRGGENEGLVSLNLDAGDDIIYEGLIADRFSLDTHTSWLAEAV
RWGWRTKLYVSSGLDVRMLKEKAEEGALDVFATNLRDVLAAAPAGQORSTIGLDPGFRNG
VKVAVVDSTGKDVATTIVYPHQPNRWKEAVSELANLCATHGVELMAIGNGTASRETEKL
AGEVADMIKAAGGTRPTPVVSESASVYSASPIAAEEFPDMDVSLRGAVSIARRLQDPL
AELVKIEPKAIGVGQYQHDVNQVALAKTLDGVVEDAVNAVGVNLNTASAPLLTRVAGVTS
TLANNIVAYRNENGGSRRKELNKVPRLGPKAFEQCAGFLRISGSTDPLDASAVHPEAYP
VVRNIAKATGLDVSGLIGNSAVLTKLKPADFADERFGIPTVTDIIAELDKPGRDPRPEFK
TASFKEGVEKISDLTPGMILEGTVTNVAAFAGFVDVGVRDGLVHVSAMSDKFISNPHEV
VRSGEVVKVMEVDVDRKRIGLSRLTDEPGAPAPQKGRNRPKQQRAPQKQSAKPATG
SMADALRRAGLGG

>RXN01389 TRANSLATE of: rxn01389.seq check: 5202 from: 1 to: 684
QDGDKLGRHGNKGVVGKILPQKDMPLPDGTPVDIILNTHGVPRRMNIGQVLETHLGLW
ASAGWSVPEDPENAEVLKTLPADLLEVPAGSLTATPVFDGASNEELAGLLANSRPNRDG
DVMVNADGKATLIDGRSGEPYPYPVSIGYMYMLKLHHLVDEKIHARSTGPPSYMITQQPLG
GKAQFGGQRFGEVWAMQAYGAAYTLQELLXXXXXXXXXXXXXXXXXXXX

>RXN01563 TRANSLATE of: rxn01563.seq check: 3710 from: 1 to: 1209
MVSDDLQPRDGIPPLLSTPGEFTAAADLLASGTGPFADITERASGFYDDRAFLIQIRRR
GSGTLLFDPEQFRPELTQALKPVLNGQEWIIHAASDLPALWLDLHPGLLFDTELARGL
AGFDHVNLAAMVEQIFDLHLLKGHRSEDWSKRPLPESWLNLYAALDVEMLELADVMAEIL
DQQGKLPWAEQEFVHIVDQFATMTEPSETSWQDLKGLSTLKRPDQLVVAREMWLERDSFA
ASRD LAPGKVL SNKVIVEVARVLPRTPAELA QVKGFPGRSQGATKRWFRIITRAKSPRR
NWPKPQQRKDGIPDRRAWASYYPEEHEVLQEIRALIDDLAADINVPGENILQPSTLRVAV
WMAKHTGEIHNAETLNAVLRDYGARQWQIDQTFPILSANLLKL

>RXN01575 TRANSLATE of: rxn01575.seq check: 4786 from: 1 to: 1020
MKSIDLEQLAGTQSRITYQSRKITDEMVARPVHVAIALWEVPWESAKSGKIEGWVIAVDSP
RGRFVRSGQTKNGDAVNRTVSMKLSALKGVRGKAWIVTGRRQAALRAALVRENYLVTGSF
AEQNRAGVKASAISSRAEQSALYKAKKIGFAERAPRVKERQEAHWWPRLSRTQGTAGVL
RLATDASTDGVFRGAMCFVASNGDYLLETQDTTASSDELELESITHALIYKLTIGATQAI
IESDSKAALAEIDFILNNRPRRGRWRGITACARNRFRDAWEALIDDCVVELSRVLGHAGD
PLNQAADQIAYMGMRVIFEQKSAHPTLLKGIDKALRKA

>RXN01594 TRANSLATE of: rxn01594.seq check: 4466 from: 1 to: 819
MVARRRLDAELVRRKIARSREHAVEMIRRRVVFAGMLALKPATVVEPEVSIRVEEDASE
DWASRGAKLLGALESFEPLGLKVKGRRVLDAGASTGGFTDVLRRREASEVVAVDVGYGQ
LIWRLQNDDRVRVDRNTIRYMTLEDTGGECDMMVGDLSFISLKLTLPAIAKVLSGDADL
LPMVKPQFEVGKDRLGSGGVVRSPELRAEVTADVAKFAATLGLSLKHVVASPLPGPSGNV
EYFLWLVDGSGASMPDDQQLSAMIDTAVKEGPQ

>RXN01606 TRANSLATE of: rxn01606.seq check: 3298 from: 1 to: 2676
MAESNAMDRAQISALLDRAQHTINLAEQANNVLRLLKTPGTATVGDNGTLGTDTYLIPSR
NITWPDNLYVNVFLDGMNAEATLTDYVASVASIPRLCQIINEGQGGMFRRLFNPTKVQAG
DQAVFDLMVKLDEISSTHEVSRMLEGVHAARTRQQQGVAFPGIHVGGERYIERAQQVL
ASALGIAGFGAEPWDGHTLAQARRVVQRYAQDPNSEYRLKSEA EKHLTSINELRVQILLE
QLPVDALRMATDHRLRFGSLDSIHVATVADVLTHTSILTTVQGIGAQTAGRMKAAAETL
KQEALRRQNTSIGDEPTQAMRLINVLARFDQTETITPEERARRTRVIDYVEHIPPSLDP
YIVINPATPEFNNFTDRLWIDANPNLFHPQTITTPADIWDDYISRPAHYQGLLATLLG
RDIEGADELDDATTLQKIRDLTLDKTHLTDLHLRGYQSFGARFAIIQKKTLLGDDMGLGK

TVQALSAAHAAATEKDFRTLTVVVPASVIVNWTRECKRFLNLPVFIAHGDNKQDAINAW
NTNGIAICTYDGVRTMDIPAPGLVIADEAHLIKPNSTKRTQALRKLIDAAPYTLLMTGTP
LENKVEEFVNLVRYIQPELITRGMKMQAENFRERIAAPAYLRRNQADVLDLPERTDSID
WIDLTPEDRSAYDDQVRQGSWMGMRRSAMLSPTRPRLTSAKMQRILELFEEAEHGRKALI
FTYFLDVLDELEKHLGERVIGRISGDVPATKRQLLDALSHSKPGSALIAQITAGGVGLN
IQSASLCIICEPQVKPTIEQQAVARVHRMGQTATVQVHRLIGDETADERMLEILAGKTHV
FDVYARLSETAEIPDAVDITESQLAARVIDEERARLGLTESTGPKDEETALS

>RXN01637 TRANSLATE of: rxn01637.seq check: 3317 from: 1 to: 663
MVNSGLDDMRGATSPRLLLEILCARLLASNTVAGPAVSSSTDAAPAATPGGLTGIAAAR
AKAREYGQKKAAPAPAPTPEPEVREQSLAPTPEPTPAAEPTSQPAPEPEPAREPVVEVR
EASVEKQPASSDPLETIRSRWSELNIVEKQSVRTSIMLTEARVLGLRGDTLVLGHSTGA
LAARLNAADHNGILVKVLAEEETGLQLKVECIVGTNPAAEAGF

>RXN01683 TRANSLATE of: rxn01683.seq check: 9344 from: 1 to: 2568
VSDDNTGQFDRVNPIDINEEQSSYIDYAMSVIVGRALPEVRDGLKPVHRRVLYAMFDNG
YRPDRSYVKSAPKPVADTMGNFHPHGDIAIYDTLVRMAQPWSMRYPLVDGQGNFGSRGNDG
PAAMRYTECRMTPLAMEMVRDIRENTVNFSPNYDGKTLPEPDLPSRVNLLMNGSGGIAV
GMATNIPPHNLNELADAI FWLLENPDAAESEALEACMKFVKGPDPFPTAGLIIGDKGIHDA
YTTGRGSIRMRGVTSIEEEGNRTVIVITELPYQVNPDLNISNIAEQVRDGLKLVGISKIED
ESSDRVGMRIVVTLKRDAVARVVLNNLFKHSQQLANFGANMLSIVDGVPRTLRLDQMLRY
YVAHQIEVIVRRTQYRLDKAEERAHLRLGLVKALDMLDEVIALIRRSPTDEARTGLMSL
LDVDEAQADAILAMQLRRLAALERQKI IDELAIEIELEIADLKAILASPERQRTIVRDELT
EIVEKYGDERRSQIIAATGDVSEEDLIARENVTITSTGYAKRTKVDAYKSQKRGGKGV
RGAEKQDDIVRHFFVSSTHDWILFFTNVGRVYRLKAFELPEASRTARGQHVANLLEFQP
GEQIAQVIQLESYNDFPYLVLATAHGRVKKSRLLDYESARSGGLIAINLNEDDRLIGAAL
CGEEDDLLLVSEFGQSIRFTADDEQLRPMGRATAGVKGMFRDNDQLLSMSVVRDGEFLL
VATSGGYGKRTPLEDYSTQGRGGLGVVTFKYTPKRGRLVSAIAVEEDEIFAITSAGGVV
RTEVKQIRPSSRATMGVRLVNLEEGVELLAIDKNVEDQGEASAEAVAKGAVEGPASKTAA
EETDSVDNGSDENGEE

>RXN01688 TRANSLATE of: rxn01688.seq check: 5568 from: 1 to: 930
QFEGQTKTKLGNTIEIKSFVQORMANEHIGHWLEANPAEAKVIINKAVGSAQARLAARKARD
LVRRKSATDLGGLPGKLADCRSKDPEKSELYIVEGDSAGGSAKSGRDSMFQAILPLRGKI
LNVEKARLDKVLKNAEVQAIITALGTGIHDEFDINKLRYHKIVLMADADVDGQHIATLLL
TLLFRFMPDLVAEGHVYLAQPPPLYKLKWQRGEPGFAYSDEERDEQLNEGLAAGRKINKDD
GIQRYKGLGEMNASSELWETTMPTVRILRRVDITDAQRADELFSILMGDDVVARRSFITR
NAKDVRFLDI

>RXN01689 TRANSLATE of: rxn01689.seq check: 4148 from: 1 to: 1116
VANTEHNYDASSITILEGLEAVRKRPGMYIGSTGPRGLHHLIWEVVDNSVDEAMAGHATK
VEVTLLLEDGGVQVDDGRGIPVDMHPSGAPTQVQVMTQLHAGGKFDSDSYAVSGGLHGVG
ISVVNALSTRVEADIKLHGKHWYQNFESVPEDELIEGGNARGTGTTIRFWPDAEIFETTE
FDFETISRRLQEMAFLNKGLTITLTDNRATDEELELEALAEQGETATELSLDEIDNETEL
VEETTDAPKKPKKREKKKIFHYPNGLEDYVHYLNRSKTNIHPSIVSFEAKGDDHEVEVAM
QWNSSYKESVHTFANTINTREGGTHEEGFRSALTSMLNRYAREHKLLKEKEANLTGDDCR
EGLSAVIFRARW

>RXN01770 TRANSLATE of: rxn01770.seq check: 9268 from: 1 to: 3765
MPIIIDNLNSDDSTIGTATEYNPDTDADLLDAINADADLDGATISTNATEEGVDAAAE
KPKKKRKAPALKPKGLTAKFFHRDLTGVGGRGRLNKNVHPTNPDLQSYQPVSDVYTPQSA
DHKGIKTRYILTHPTPAVVLSEISNAFHVSTLRRNNNVNNSDSELAAPYLYQLDIPQL
DQMINVADICDYHFGYNLWVDFTPQTIALRSGKTVLDDGTTASDNTTHVYRVTVHVAIA
GQDHGSTLLDDQGNQVLDRDDNPSTPSIKRIGAVTDLFDHNPFGFASVNSFAFVDFSWD
PATTLVDMNLNLSYLSNHINIASSPTPIALDMVVLNEWSEKSYQLCERVVAQAKLINSN
KITAHSVSDVIKQNAHNILWFTEQMNPGTTLNLSEVPISKKSMLPMSRQLRILEHYDVPLTA
YSALFWTVSAIKNESMVQYLVRQNMQLTLSSNLDALNSIVSOLPVPDKDVVAASGYQIQP
HFSTQQREAITTDNPLAI IQAGAGTGKSTVILERIEYLCAAGTNPEEIAVLSFTNAAADN
ITAKNDKVTSMITISKMVHEIYAHNFPDHEISTIDTIINTLDIEYGDQMVTSYMIQLRDL
LYKVMTOGGGANLTALSIFMESHIEAFISVLDQIKQTSLELEIIICYLLLDKLIEPHASP
KYLIIDEVQDNSVFVFEFVALRFAAKHNTSLYLVDGSSQTLYEFRSANPKALNSLEASGVF

GTYRLTTNYSRNOEILDFANIHLSDIEANQFAGIQLYANSFDAPTADSFKEKVELDMHHV
 SKQSEFTDSIPYFMESNKARFDAAILNNEQTIIVLAHSGREIRAAQQALAEMYPSITVRNL
 QSDKGFNNTVFSTFIKDFWFEVTAVDPAHAAFTFTSQVTAHLDKLVRGKREQMEDRVIRS
 MAAWRENERDIQGWVQQTQSGAITNEEFFYRLRQCILDYEIRNNRARQSMNLARNNANK
 EAVAQEKPLLMVSTIHSAGLEFDNVIVLQKPSSDAEMTEEGKRATYVALTRAKKRELI
 AGSTRAYPRIVTDYEQIVDLLEKRDEERKIKEEEAAALATLEAEQETRALAAEAQAQAL
 LLEHNPLRLDLSDEEVTALTEQEIIINNVEPALQIEEEEEEARALAAEPALQIQQYLSQFAF
 DEFPPDDNVANTVVHVAPQPILHQAVPADVTVQSSTAPVTPVVADLEVTTVAADPVEPTI
 VAAQPEVDDNLVYSTSTPNSHSDVIAVNSDTSENAAVNPVLSDIEALRAIFNNQD

>RXN01772 TRANSLATE of: rxn01772.seq check: 5291 from: 1 to: 4938
 MECMSTITDAVSALRTLPSQSAQGLAFELKLMVNFIKSDPTLSTEFDEVHRWVDWPYNGGT
 MDTGIDLVAYNKDDDAYTAIQCKFYLPPTSLAKGQLDSFFEASGRTFETPEGTRSFNSRL
 VISTTDKWSSNAEKMLENQTIPTNRIGLSAIAESPIDWDIAYPGSELINLQKEPYSR
 PHQQTAEIKAEIEGFQTHDRGKLIMACGTGKTFTALRLSEEVARLNGNKARILFLVPSISL
 LSQTLKEWTAQKTMDLRPVAVCSDSKVSKAAEDIAAYDLEVPVSTDGALIAEKLEHRKRA
 AGLTVVFSTYQSLPAVHAAQEAGAEPFDLVICDEAHRTTGITLAGEDPSNFTRIHDASYI
 KAAKRLYMTATPRLFDDSVKGAADHSAEVSSMDDEAIYGPEFHRLGFGAEVEKGLLTDY
 KVVVMTVDEQVAASALTVLGSTPGEELTLDMTSAII GAWNGLAKRSGKEQDTKTGFSSSD
 AAMERAVAFARDIKTSQQIAESFPRVVNAYTTELEVKNDDVDEHNLNLSVACQHVGDGSMN
 ALERNSRLTWLKAPTQSMETKILTNRARCLSEGVDVPALDSVIFNPNRNSMVDVVQSVGRV
 MRKSPGKNYGYIILPVAVPPGVAPSAALNDSRRFKVVVQVLNLAHDDRFRNAMVNSIAL
 NEGNIKDLPVETEHTGPTSKDRDNAPYDSAESATQYVLFSLQWQEAITYTKLVDKVGTRT
 YWEDWADDVADIAQAQITRIKALDNASPTIKEEFERFVEGLRGNLNEISDDEAISMLS
 QHLITAPVFDALFAESSFAKQNPVSQVMQADALNSAELNSETEKLEKIFYDSVIRAAE
 VSSAAGKQAVIKDLYERFFKKAFKKQSEALGIVYTPVEIVDFILRAADDVSKKHFGRLS
 DKDVHVLDPFTGTGTGMVRLQSGLIKPEDLARKYANELHATEIMLLAYYVAAVNIETTY
 FGLEGERALRNGEDAPVYEPFDGIVLGDTFQMYEDDDKLDLDVFTANNDRMERQRLTPVQ
 VIVGNPPYSVGQSSANDNNANLKYPTLDRRIEDSYAKYSTATNKNLSYDSYLRAFRWATD
 RIHTQGVAFAVSNNGWVDGNTADGVRLSLAQDFSEIYVFNLRGNSRTGGDLAKREGGNVF
 NVRVGTQIIIVAVKNPQLSGCRILYKDIDGNLSADAKLNEIAVATIEGAEWQTISPNEYGD
 WISQRSVDFDTWPVLGDKKNSALKVFQTFAGLKTGRDAWCYGPSTSAQVKTNITRLLET
 YEQAQQRFNNSWVDNGVTSPEKADVNFQFLKQNPDLADSKISWDSNLKMSLSRGDTFSFD
 PSSIQMSLYRPFPPQQTFFHVS LNQRRYQLPSMFPTPEHDNQGFYIVNPGSAKPFSTLAT
 NLLPDLAMWGSNAGQFFTRWTWEPIETREGELDFGNGLFSTTPKKGVEGEILDGYRRVDN
 ITDEILKLYQSSLGEDVTKDDIFYFVYAQLHDPAYREAYAADLKKMLPHIETPTDRARFD
 HFVTAGKELMDLHINYEDVEPWDVEVKVEKADPTDRETWRVTMMKWAKVRDPETKKLVE
 DHTTLIYNSSITISGIPEEAENYQLGSRSAIAWLIDRYQVKKDKASGIVNDPNWDADEVG
 NPRYIVELIAKVTRVAVETMRIVEEL

>RXN01786 TRANSLATE of: rxn01786.seq check: 2034 from: 1 to: 684
 MRAAKITRGFTSNPAGSVLVEFGNTRVMCTASVELGVPRFKRDSGEGWLTAEYAMLPAAT
 AERNRRESMAGKVKGRTHEISRILGRSLRAAVDLSQLGENTIAIDCDVLQADGGTRTASI
 TGAYVALADAIKVLQERGVVPGSPLLAPVAAVSVGLVDGNVCLDLPYEEDSRADVLDNVV
 MTEHGEFVEIQGTGEETTFTRAQLNDMLDHAKEGCRELVAAQKAALGI

>RXN01876 TRANSLATE of: rxn01876.seq check: 6935 from: 1 to: 1851
 MARPFYLATTVSPEGVHIRRHIRTGRVVTGVDDEVLTGEMADVIEQGGVGSSESVLHQAL
 EQARSGHMRNIVETIQREQDEIIRDTRGMVMVQGGPGTGKTAVALHRVAYLLYTWRDQL
 AKSGVLIIGPNKTFLEYISHVLPDELGETGVVLSTVGELFPGIVPTGSEDLTREIKGSEE
 MASILAEAVKAYQVLPKTIIVVSVDGIEISIDEKTVAKSRTRARRARQSHNSARPIFREH
 LVEQLAHQMAQTIGADPLGGKNLLSAADIDQLHDDLLDDAALQSVIDDFWPELRPQDVLH
 DLLISEERINVAAGYDEETKSALLRGELDPWAPSDAALLDELALLIGLPDPEEAREKAE
 AKWREQIDDAQEVLDVLSSSQSSDIDDVTEAEVLSAFDVIDAETLAQRQTVTDNRRTAER
 AQADHKWAYGHVIVDEAQELSPMEWRMVFRRSPSRWMTLVGDIAQTGWPAVDWAEESLW
 PFVEKRFRHHELTVNYRTPAEIMSVANELLTQINPDIAPAMAIRESGREVVNLPLDADLS
 AVMDSLREEDSQRTIAVISSRRHHESDFYLVDDIKGLEFDHVIVVDPAGIVEESPQGLQD
 LYVAVTRATQSLTILGE

>RXN01912 TRANSLATE of: rxn01912.seq check: 1693 from: 1 to: 738
 MRRFIFTERNGIYIIDLQQTLYIDQAFEFVKETVAHGGTVLFVGTGKKQAQEAQVEADR

VGMPYVNHRLGGMMLTNFQTVSKRLNRMKELQAMDAAENGYEGRTKREVLMLTRERTKLE
 RVLGGIAEMTRVPSALWIIDTNKEHIAVAEAAHKLNI PVVAILDTNCDPDVDFVPVGNDD
 AIRSTALLSRVISTAVEEGKKAREERQLAAAKDAAGDAKPEAAEAPAAAAEAEAPAAEAE
 EAPAAE

> RXN01951 (1-561, translated) 187 residues
 LLHYFDGEKR YILAPKGLTQ GTVIESGAAA DIKVGNNLPL RNIPTGTTIH NVELKPGAGA
 KLARSAGASI QLLGKEGSYA VLRMPSSSEIR RVNIRCRATV GEVGNAEQIN IRWGKAGRMR
 WKGWRPTVRG VVMNPVDHPH GGEGKTS GG RHPVSPWGQK EGRTRKPKRY SDDMIVRRRR
 ANKNKKR

>RXN01966 TRANSLATE of: rxn01966.seq check: 3341 from: 1 to: 657
 VSESENNTTPAVAARDRLVWVDLEMTGLDLKRHVIVEVAALVTDANLNLVLEGVDLVVH
 ATEEEELAQMDDFVTNMHESGLTEQIRESAVTLKEAEDAVLALIEKHCDPAHPAPLAGNS
 IATDRAFIREHMPRLDEALHYRMVDVSSVKELARRWYPRVYKQPEKGLAHRALADIVES
 IRELDYYRRSFFVAEPGPTSEQCADDQAQAVDRFAPYFD

>RXN01979 TRANSLATE of: rxn01979.seq check: 2139 from: 1 to: 1581
 LGHDFRPDYRRIRDLLAGLAPNIPVLATTATANDRVVEDVRAQLEDGTGLFRGGIDRESL
 YLSVNNLLNPTERPAWLATHLKELTGSGIIYCLTVSAAHDLADALNSVGWNVAAYTGRTE
 AGERERLEHALINNEIKALVATSALGMGFDPDLGFVVMHMGSPSPVSYQQIGRAGRGT
 ARADVILLPGTEDKEIWEYFASVSFPREEVVRQLLAVLTDEAOSTVKLESQVDLSRSRL
 QVLKVLDDVDGAVKRVRGVSTGQEWIYDAERYAGLEQARKIEQQSMVNYQNTTECRMLY
 LRKELDDVEATTPCGRCNDCTGKTWGLDTDASITLKVDQQLQTPGVKIAPRKMWPTGISV
 RGKIAGLEEGRALGRLNDIARGPALKALLDSGAYSDDPMMARIIEVLKNWDWTNRPANVV
 ALGNTNFGSTEMI IQVAQSIAAVGRMNFAGVLPAPGAEEVMAQNSAYRVEALLKQWDWS
 QGLQLVPGPILLVTDLIDTGWSVTVAGNGIAQRTSEKVLPPFALASRG

>RXN02038 TRANSLATE of: rxn02038.seq check: 6905 from: 1 to: 369
 MSEPIQNENVESNVADAADIAAATAATEEFTNTIGDAIATASEEETIEAAPVVLDGPIQT
 VGRKRRAIVRVLVAGSGEFKCNRTLEEFYFPNKLHQQLIKAPLVLLDRLNQCNIASIK
 GPK

>RXN02070 TRANSLATE of: rxn02070.seq check: 1536 from: 1 to: 1122
 MTQVTESAVRSALSRVEDPEIGKPITELGMVKSVIDGSDVQVEVYLTIAACPMKTTIVT
 NTEAALKDIDGVGVHVTTDVMSDEQRRALRVSLRGETSEPVIPFAQPGSTTRVYAVASG
 KGGVGKSSMTVNLAALAKRGLSVGILDADIYGHSPGMLGSDQRPHQVDDMIMPQAHG
 VKMISIAHFTEGNAPVVWRGPMHLHRAIQQFLTDVFWGDLIDILLDLPPGTGDIATVAQL
 IPNAELLIVTTPQAAAAEVAERAGTISVQTNQKVAGVIENMSAMVLPDGTMTDVFGTGGG
 QKIADRLTAVTGEVVKVIGSVPLDPNLRIGGDVGNPIAISEPHSPTAAAINIEAHLAHR
 KVS LVGKTLGLGVK

>RXN02082 TRANSLATE of: rxn02082.seq check: 737 from: 1 to: 2910
 MYLKSLLTKGFKSFASATTLKFEPGICAVVGPNNGSGKSNVVDALAWVMGECSAKTLRGGK
 MEDVIFAGAGDRKPLGRAEVTLTIDNSD GALPIEYTESVTRRMFRDGASEYEINGAKAR
 LMDIQELLSDTGIGREMHIMVGQGLAEILES RPEERRAYIEEAAGVLKHHRRKEKAQRK
 LQGMQVNLDRQLDLTHELAKQLKPLARQAEAAQRAATVQADLRDARFQIAGFEIVKLSEK
 LETSTEREKMIREQAEAAQEQLLEATTQMEVEMELAEITPQAEAAQQLWFDLSSLAERV
 SATMRIAADRASSGAADV PYAGQDPDELLGRAETADKELELEMAVEMTTERLTSIQEEA
 EDKAAQAREAREHLAQVRAISDRREGVVRL LASEESLRTQHTSAEEEEAERLSEQLEEFI
 GRILDVERERRLTDERKQGVDTDRAPLEELKQAKHEAEAAETRLEELRTRKSDLEKEVS
 RLQSRIETLNQNRPRSDAADVVDYPQLATLIRPQRNVDKALAAALGAHAEALAGEAAEGL
 VEKLIDAGVARTIIVDGTQAGGAWRLDANI PAGASWLLDHVDLDPATAGPVNRLADVVL
 VDDPSLGRQAIEDDPRLRAVDRNGVLIGAGWIQVGTETSTVEITAHIEEAEALAAASAA
 LDDIAGTFD GALHAADNTRVEVAARTAALRELD MTRDSITRDLARLDKQHEAAESERVH
 VGR LHAAETRREELREQLEDIVDRLSRVEDEEDADEPSTTARDQANAELQQIRAMEMEAR
 LAQRTAEERAGQQRGKDSLRRQAEHERQAKIRHEQAMEARRRRRTQLAAAVHNGARDVAE
 RVSSVLAQAAIERDQHNRDKALLTSHLAKAKDAVSAARQHLNRLSDNAHSMELARSQAQV
 RMEAVAKITEQLGIPVAELLRDYTPDENFDEK FQARLQAEKD LAALGKVNPLALEEF
 KALGRALRVP

>RXN02131 TRANSLATE of: rxn02131.seq check: 894 from: 1 to: 1671
 VAFGDGPLIVQSDKTVLLEIDHPQAGEARIALAPFAELERAPEHIHTYRITPLALWNART
 AGHDAEQVVDMLERFSRFPVPQALLIDIAETMSRYGRVRLHRHPAHGLILESGEPAILVE
 ISRHHKIKPMLGAQVDPETIVVHPSEGRGLKQELLKVGWPAEDLAGYVDGESHPIGLSTE
 FEDWSLRDYQQMAADSFWEGSGVVVLP CGAGKTMVGAASMARQAATTLILVTNTVAGRQ
 WKDELLRRTTLTEDEIGEYSGERKEIRPVTIATYQVVTRRTKGEYKALELFDSDRWGLII
 YDEVHLLPAPVFRMTSDQLSRRRLGLTATLVREDGREGDVFSLIGPKRYDAPWKDLESQG
 FIATADCVEIRSTMTDAERMVYATAESADRYRLAATAHTKVAVVRKLLEEHAGKPTLIIG
 AYLDQLEELGAEFNAPVIDGKTPNKKREALFDQFRSGSLSVLVVSKVANFSIDLPEASVA
 IQVSGTFGSRQEEAQRLGRLLRPKHGSEAHFYSIVSRDTLDTEYAAHRQRFLAEQGYAY
 RILDADDILFPLPKKEL

>RXN02293 TRANSLATE of: rxn02293.seq check: 2677 from: 1 to: 2388
 MSSRIGNFLINRISTGLPVENIIPHLQEAFSAGPKNLVIQAPPGTGKTTLLPPLVANILC
 NEGAGNATPTKVLVTAPRRVAVRAAARRLAQLDDSQLGTVGVFSVRGEHISGSHVQFMTF
 GVLIRQLLNNPELPGIGAVIIDEVHERQLDSDLLGLMLAELSQRDDFSLIAMSATLDS
 KFANLLDAQVLSVEAPIFPLDISYAPARAPRLNAKGVWDWDFLDHMAQKTHDAVTHSEHSA
 LIFVPGVREIDRVMSTLKSGLHNNVFPLHGQLSPTEQDRALAPSQQQRIIVSTPVAESSL
 TVPGVRIGVDSGLSRSPKRDARSARGMTGLITSSCAQASAGQRAGRAGREGPGQIIRCYSEE
 DFSHFPRFVTPEISSADLTQAALWLAQWGTSPADLPLLDQPPHAAWTAQQILRLIGALE
 GDAITSLGHRLLSTLPLCPQLSASLLRFGEQSakilAVVSENPOGDVEKQPPDKREVERLR
 RLAPASVGKASAGQIVGAAPFQLIGRKIDNGEYLLASGTRARLMDSDLKDAEWISVAAIN
 RSQNSAIIRAAARISEDDAIDIGVVEETRAIFVNGKVQARKVKAAGAIELSSTPTKPTP
 AEASSETIATALAKGIDLHFDHSDKAASLRDRLKFIHEHRGEPWPDIEADPHLWLSPEIE
 ALSHGTRLNNDMPALQRLLPWPEATNFEFAPSHLSVPSGNQHRLDYSSGRPVIRVKL
 QECFGLLEESPQLCGIPVQFHLLSPAGRPLAVTDDLRSFWSGPYSQVRAEMRGYPKHPWP
 EDPWTAPATARTKNRM

>RXN02357 TRANSLATE of: rxn02357.seq check: 4829 from: 1 to: 6300
 MSSLI PVHAAGSIQEGITEYLTTSFSLADKQVATELKRFLGHGDSGMFHGPYVRARLPYA
 QAQEWENVLSWLPENFVPHYHQKAAFQRLSSLDNRGKDRRPDPTLVVVTGTGSGKTESFLY
 PILDHALLRLKRQGGQIKALLYPMNALANDQADRLARLIHNNPALKGVTAGIYTGAEAKG
 NRTQMGERELINDPQAMRVSPPDILLTNYKMLDQLLRLSVDRMWMQKSATSLQYLVLEDEF
 HTYDGAQGTDAVALLRLGLMLKSQQPANFLDSDSAMHRPLGIITPVATSATLGSGDSGSP
 MLDFAYTIFGERFPADAIVGETRLELDQWRAEIAQNFAPAVSEPRELPTVEDIEVVLDT
 IATAQHEDDYAQLCFRVFCEKVLCEADLHAAISAYAAHDLTAAILQHAADSTPLSRRDQ
 DEVTALPELVLGATARI LGVEKAAEFISHALAAMAFVRAEYGVAAWGAARLPGVETHLW
 VREVSRI DRALGVGDEQSMFRWSDDGPAEDANTQOWL PACYCRSCGRSGWMVSLEQGTNI
 PVLEEQKIRLNSFEQPHKQORALLDATSEQRAAIEQGRSVAGPRGVDGTSAVLWFHFSASNE
 LSTRQPSPEEEQSGSSI AVLTHFGPEADDLSAKQTCPCSGDVDSIRYIGSGISTLLSVSL
 SNLFGMADLDSAEKTLVFDPSVQDAHRAGYVQARSRAFALRTYTRRAVGDNVEVTLPSI
 SRALMDNATSGRTRYELLPPDLTDLDIYKPYWHPDASKAERREASRNVHKRLSFDLALF
 GQRADLPRSLALTGALSFAVDLPKGVALSAAAEALYAEVPTLDIEDENLRLRWVQGALE
 LLRARGGINHEWFGAYLRTDGNPYMLNRRQARAEGIPGFVRGGAPEFPRVGSALSGSLRS
 STGTTPLGSPRGYASWTSQVLGISTHDAATAITKLFDA LSNRSILSSI STDGSGKIYCL
 EAERIRIFSEDHPEVLECSVCHAQTGVTDHVRDFLDGAPCFSPSCGGVLHIEEVEDNYR
 RLYSAIEPRTVIAREHTSMLKKKDRLALEQSFRGGECSAKQSPDAPNVLVATPTLEMGI
 IGDLSVMLASLPTSVASYVQVRGRAGRLSGNSLVLA VVRGRGVTLPRNLQPLSMIKGAI
 TPPVAYLSASEILHRQFLAYVIDCLDTRAE LPKLETAIDVFDNAAGKTPLVALLKAQIHA
 GLDPLLEEFVRTLNMQISIDNIFELRTWASGNSTDSLLALLETSQKEWMEERRSLTARRG
 ELEKIFDKLDARNDADHEELKEEKRTAASLKAVKLQIRDLLEGFWIAALERYGLLPNFT
 LVDDSVELNVAVTSFNPQEVFDTKNHAYSRGIS AALFELAPGATFYAQGIAAKVDSIEI
 GEHGS AIEQWRLCPVCSHSEILQPGVSTPGSCPTCGSPAFADKGQILEVVQMRKVSSAVE
 KTRAAISDDREDRSTRFNQHVSVFVPPDGHGKSWYLDNGFGIEHL PKVELRWLNLGIGN
 GQKRRLLGGFEVTSPLFNVCRHCGHLDSEAGANSRWDHRPWCPHRYEQKEDTVSFALGRTL
 KTQGVLMMLPEYFGSEADSMVVTSLIAAIKLG FREVLLGGDPDHL DVT SVQVPTSGDGAL
 DALLLHDQVPGGTGYLNQFADPTKVP ELISR AVERVSRQCQYDETLACPECLLPYTRTD
 TLLHTFRATAEKSLRAILLNSSRPEEITDLSAVPDWTFLEKRPENTLGSQLELRFVRMLR
 RALKNRHAKLVDRVNGSNSYVDIEMSSGVVRWRMSEQVDRGYTRPDFWFEPLNGNYPTVAV
 FTDGA AFHISSANYRLDGD IQKRMKLALDPDNL PWNITSLDLDRFSNPAAQGEPAWFS
 PIGRQLSKANLILDPQSTALLAATPMDQLLAFLDNPAASSWKEFAHIAAAHMLGHNPPQKN

GDGIVGTFRNKISLRATMVNRELRARQLWLAPTTPEELEVDTWTAFNLNLANLMWLAPESV
YVSTNGSPHKIDIVPAPAAPLVVEPELWAPILDGFTADEDEEAEGALQILAKEHALVPE
TTGDELSSIPTIATWPSVKIALLYESDPDEPLEDDLKAEGWTLLFANDLETSDIPAALRP

>RXN02370 TRANSLATE of: rxn02370.seq check: 1226 from: 1 to: 792
MTPIYDDVDNDKLDPERILAESTVEPEEGPRMRARRQRQESAADDIAAIAAAVVDIASE
EDPDEPSGSSYVSDFEAEPIAPVVEKAAEPVAEPTADYEKARAEFEASPRRRRKTRGNSR
SDHAPKPEDFAPVVEEVAETPVKTPARKAPRRNRPSSELSSGAPSSAPSTRNRRAVRRL
VEAPETVVEIAPEAAPEQVAEPQVEFDQPDNRKRRAVRVTAAPVEKKVASTSNARAPK
KEPQAASTTNPGRRRRRATRGRPRS

>RXN02371 TRANSLATE of: rxn02371.seq check: 7071 from: 1 to: 315
MYAIVKTGGKQYKVAEGDLVKVEKIEGEPGASVALTPVLLVDGADVTTAADKLASVSVNT
EIVEHTKGPKIKILKYKNKTGYKKRQGHROPLTVLKVTGNQVSPR

>RXN02468 TRANSLATE of: rxn02468.seq check: 4275 from: 1 to: 1224
VEITDALEALGINRTFAIQEYTLPIALDGHDFIGQARTGMGKTYGFGVPLLDVRFDSADV
AETDGTPRALVIVPTRELAVQVGDDLQRAATNLPLKIFTFYGGTPYEEQIDALKVGVDDV
VGTPGRLLDLHKGALSLDKVAILVLDEADEMLDLGFLPDIEKILRALTHQHQTMLFSAT
MPGAILTLARSFLNKPVHIRAETSASATHKTTRQVVFQAHKMDKEAITAKILQSKDRGK
TIIIFARTKRTAAQVAEDLASRGFSVSGSVHGDMPAREKSLNAFRTGKIDILVATDVAAR
GIDVDDVTHVINYQTPDDPMTYVHRIGRTGRAGHNGTAVTLVGYDETLKWTVIDNELELG
QPNPPQWFSTSPELLETLDIPEGVTERVGPPTKVLGGTAPRPPRRTRK

>RXN02727 TRANSLATE of: rxn02727.seq check: 1998 from: 1 to: 912
VULLPLLVPQLQVQPLQLPSLLTRQRCARKSKRSCAPNTASKLDDASKAAQKAQNDAS
AQDQLQRAQADAKAARDEAEKAKAEAKSAASSSTTKAAAVGAVGAGTGAATGAANVDT
HMQAQVLGLAQEMADRLTSEARSESMSLDEAREAAEKQIEEASTSNRTLEDARANAE
KQIAEAQNRADTLVNEADAKAKNLVSEAEKKSATLAASTSRAEAQIRQAEDKANALQAD
AERKHTETMAAVKEQQNALETRIAELQTFEREYRTRLKSLLEGQLEELHARGSSAPTNNK
PSGE

>RXN02764 TRANSLATE of: rxn02764.seq check: 4873 from: 1 to: 2784
MSEYKPPIPSDPQVRLIKPTSKLRPRSWEGEVSHLVKQGTGLWRVTGEAGSGVSSAVVDT
VLERIRQGWEPSSMLVVATSKEAASRLRQEISESVAQMDYVSEGPLVRSVHSAFALIRD
ASDDDVRLITGAEQDAVIRELLRGHADDGRGGWPQEQREGLRMVGFARQLRDFLLRAVER
GVGPDELVELGERFERANWVAAGEFLREYKQVMKLSGAHSFSASELVTEALRGPEPSVKY
RGVFIDDAQHLDPKSAELVSRFFPEAELAVVAGDPQQSVFRFRGANPDFLTKLSDHEVV
LKGRRKASTSIVVAETESAHADLLADTVRRHLIDGRSWSEIAVIVRSAGMIAPIWRTLL
AAGVPVHISPTDVVLAEQRIVAAMILGLRALTESLNAIELEDLLGPIGGADPVTLRRL
RGLRQAEMKMGQORRAIEVLRSLLAESDAEMLGLFTDRELNLLERVRSVLEAGREALAEH
GSIEEVLWALWSATDLNSLSAISLRGGASGSQADRDLDAMMALFDAAGDYVERYPSAGV
RSFILHISEQELPTGMRRERRGAIPEAVEVLTAAHTTGREWKRIVAEVQEGSWPSLGETG
TLLGQEEFVDLVDEGIDPDIIISRSAERLAEERRLFYLATTRSTESLLVTAVNSPDSDEV
REPSRFLELLSQPIVVLEGEESAIAEPEEIGHRLLSIPAMVAELRRVVNDPRDPRKQA
ARQLSRLAEAGIPGANPAEWTNLRTPTSTDEELIKGAVSLSPSRIEQLLNCPRAVLDRLD
SEEETPIAMLKGTLVHAFAEAVAGGVDAALAEKVTSAYMQLANVPSWSRESTEIAFRRI
LSRTDTWLKTSRADFTVEGTEMDSVTIDDSVSIRGRMDRLERNKSGELVVVDFKTGKTQ
IAAKMDGDHPQLFAYQLALSKGVLHGDK

>RXN02819 TRANSLATE of: rxn02819.seq check: 6309 from: 1 to: 1047
KLQIGDVIAMPGRKRPVLAVVMTANQSRDPRPWVTTESGWSGRVDAESFTNPITIGHM
RLPRQAIIEPRRNARRVQELFRREHFKRPNKMREFARVRPNEAVTKLRNAIRDHEAHHWP
DREHLARTAERMIRKERDLAKLTGNVDKARETLGRTFERILSLLSEMDYVDYSNPDNPVI
TDEGERLAKIHSEADLLVAQCLKRGIWNDLPAELAGVSMCTFENRRETGGEAQAVTEA
MADSMNSVERIWGELVEDERRHRLPITRQPEAGFATAIHQWASGAPLGYCMAAAAENGAE
LTPGDFVRWCRQVIDLLEQVAKTAYFDETTNRARQAIDAIRRGVVAIGS

>RXN02826 TRANSLATE of: rxn02826.seq check: 160 from: 1 to: 435
MAPKKKKKVTGLIKLQIQAGQANPAPPVGPALGAHGVNIMEFCKAYNAATENQRGNVVPP
EITVYEDRSFDFKLKTPPAAKLLLKAAGLQKGSVPHTQKVGKVSMAQVREIAETKKEDL

NARDIDAAAKIIAGTARSMGITVEG

>RXN02833 TRANSLATE of: rxn02833.seq check: 6083 from: 1 to: 783
LLETWRQVVADLTTLTSSQQADSGFDPLTPTQRAYLNLTKPIAIVDGYAVLSTPNAMAKNVI
ENDLGDALTRVLSLRMGRSFS LAVSVEPEQEIPETPAQQEFKYQPDAPVISSNKAPKQYE
VGGGEASTSDGWERTHSAPAPEPHPAPIADREPELATPQRIPRETPAHNPNREVSLNPK
YTFESFVIGPFNRFANAAAVAVAESPAKAFNPLFISGGSGLGKTHLLHAVGNYAQELQPG
PRIKYVSSEEHQRLHQLRAR

>RXN02943 TRANSLATE of: rxn02943.seq check: 6621 from: 1 to: 1668
MSRISARTLAIALAGATAASLAVVPAATANPAGTAPVINEIYEGGGNSGSLFSNDFIELY
NPTSGDISLDGWSVTYYAANGNSGGTTNLGTGNI PANGYYLIQQRAGSNNTGALPTPDATG
NLAMGASQGSVALTDNSGLTADLVGFGGTSMFEGTAAAPETSNKLSVQRKEVGADSDNNS
VDFETGAPTPTSSGGSAPVDPGEPETPVNPGETVSIAQIQGTGLATPLEGQTVTTEGIVT
AVYAEAGGFNGYYIQT PGSGTAPKVAGDASDGI FVYVGSNGSYPELGASVTVTGKATHEYE
MTQLGNSSFTVSDTAPEPVTPLELDTVPTGDDIREAYEGMLLKPTGAHTVTNNYATNTFG
EIALAPGNEPLYQATQM VAPGA EAIAYEAENVAKQITLDDGRSGNYTRGDSSTPMAWLQ
DGGETIKSIRTGDQVEFQAPVIFDYRYDLWKFPPTTPTVTGNTASSDLPTWDDTRAAELA
SINDVAGEFHIA SFNV LNYFTSLGEDEPGCSAYRDINNTPVTANNCNVRGAYTEEALEDQ
QSKIVEAINRLDVDVL

>RXN02981 TRANSLATE of: rxn02981.seq check: 3652 from: 1 to: 366
MARLAGVDLPRNKRMEVALTYIYGIGPARSKQLEETGISPDRLTDNLTD EQIAALRDVI
EGTWKVEGDLRRQVQADIRRKIEIGCYQGIRHRRGLPVRGQRTKTNARTRKGPKKTIAGK
KK

>RXN03093 TRANSLATE of: rxn03093.seq check: 5261 from: 1 to: 1839
VADTAGTTGSKKKYLVIVESATKAKKIQPYLGNDYIVEASVGHIRDLP RGAADIPAKYKK
EPWARLGVDTRGRFAPLYVVS PDKKKKVADLKAKLKLVD ELLLATDPDREGEAIAWHLLE
VLKPTVPVRRMV FNEITKPAILAAAENTRELDENLVDAQETRRILDRLYGYEVSPVLWKK
VMPRLSAGRVQSVATRVIVERERERMAFVSADYWDLSAEFNARENGKADSDNPSSFTARL
STIDGNRVAQGRDFNDRGELTSEAVVVDKQRAEALAEALEGQEMAVVGVEEKPYTRRPYA
PFMTSTLQQESGRKLHYTsertmriaqRLYENGHITYMRTDSTSLSEQGMKAARDQALEL
YGAEYVSPSPRTYDRKVKNSQEAHEAIRPAGETFATPGQLHGLDAEEFKLYELIWQRTV
ASQMADAKGTSMKVTIGGTAKTGEKTEFNATGRTLTFPGFLRAYVETTRTADGRDVADNA
EKRLPLLSEGDLLKVL SIEADGHSTNPPARYTEASLVKKMEDLGIGRPSTYASIIKTIQD
RGYVYSRGNALVPSWVAFVAVGLLEANFTSLVDYDFTSSMEDEL DNIAAGREGRETEWLN
GFYFGRCRSGSVHG

>RXN03139 TRANSLATE of: rxn03139.seq check: 8976 from: 1 to: 249
MKQRNNAKRVRL EQTRRPKNPLKAAGIEKVDYKDINTLRQFISDRHKIRSRRVTGLTPQ
QOREVATAVKNA REMALLPFTSR

>RXN03148 TRANSLATE of: rxn03148.seq check: 7950 from: 1 to: 366
MVINFII LFLMIAITSFFVASEFALVKIRRSRL EQLEKENVKNAKLALHVTHHLDNYLSA
SQLGITLTGLIIGWVGEGSVAALLEPVGKLPFSSAISSTISVALGFILVTVYRCGYWRT
AS

>RXN03163 TRANSLATE of: rxn03163.seq check: 610 from: 1 to: 1497
MAKTRVPAPPEKSVARVLP LLGLPHLDRLFDYRISEDQHDDVQPGVRVRVRFGGRLVDAIV
MSRTAQTSHEGKLMWLD RVISPIVVYPPQTAKLIEQLSDRYGGVRSDLIRSALPARHAGA
EEADTSTSWESLGEVKEPDLSSWSAYQH GQS FVDAVL AGTTARASWQIAPGDDWALALAS
LAVKVKDGGGALLVVPDQRDLDRLEAALRGLVAAKQITVLNSGLGPQARYRRFLSVLSG
QGRLIIGTRSAAFAPVKDLKLAVILNDGDDNLVDPRAPYAHAREVLTRSSLEASSLIIA
GHARTAETQLLVESGWMHNLIA PRDTIRTRMPRIQAVGDSDFQMERDPMARSARLPGIAF
HAVRSALERDQPALIQVPRKGYVPTLACGNCRTPARCRHCNGPVGLPQGSSDLAGVPTCR
WCGRPDSRFKQCNGSPKLRAVVLGTERTA EELGRAFP SVRVITSGGNKVVDSDVENRASI
VVSTPGAEPFVANS PERPE

>RXN03166 TRANSLATE of: rxn03166.seq check: 5429 from: 1 to: 2235

MTTSETAPSKASLYELLEGVSLSDERTFRRRLSKARAPKALGAIKADIDKARLLIDEKSQ
LIPSITYPENLPVSSRRDDIAEAIRDNQVVIIAGETGSGKTTQIPKICLDLGRGRRGLIG
HTQPRRLAARTVAERIADELGQDIGESVGYAIRFDDRVSSTSVKLMTDGILLAEMQRDR
FLNAYDTIIIDEAHERSLNIDFILGYLRQLLPKRPDLKVIITSATIDPERFAEHFADASG
KPAPIIEVSGRTFFVEIRYRPLEVLDGDKIIDTDPLDGLCSALEELMAEGDGDILCFFAG
ERDIRDAMEAIEARRWKGVVEVTPLFGRLSNQEQRHVFSPHSGRRIVLSTNIAETSLTPVG
IHYVVDTGATARISRYSVRTKVQRLPIENISQASANQRSGRGCRVADGIAIRLYSEDDFNS
RPEFTDPEILRTNLASVILRMASRLRGDINDFFVQAPEQRSIRDGILLLLHELGAALTDDT
QADGSPQLTQIGKDLANIPVDPRMARMLEANTLGCLHSMVIVSALTIQDVRERPLEFQ
AQADQAHARFKDTSDFLGFLKLWEYIADQRNQSSGNSFRKQMKKEFLHYMRIREWDLV
RQLEQIGQQLGWAKKEQVAGTASPDIIHQSLLTGLFSQIGSRDGESKEFTGARGTKFLVF
PGSALTKKPPQFIMAGQLVETSRLWARDVAKIEPEWVEKAAGPLLKHQYSEPYWSSKRG
CHGAPQINALRCDNCCRQGSPLPHG

>RXN03175 TRANSLATE of: rxn03175.seq check: 2273 from: 1 to: 783
VRASEKDTATALQPALDNGWHYIGAPAAAKGRAGVGILSRHELEDVNIGFGSFLDSGRYI
EATIKDITLDVPVTVASLYLPSGSAGTDKQDEKYRFLDEFEGFLDQRAKERSHMVIGGDW
NICHRRDLKNWKTNQKKSGLPDERAFMDSVFGTFPDEATQVAGAGDFFGAVDYEGTRR
REATTDPAWFDVARRLQPEGDGPYTWWTYRGKAFDTGAGWRIDYQAATAAMLERASRW
DKAAAYDLRWSHSPNLVIYS

>RXN01389tr TRANSLATE of: rxn01389.seq check: 5202 from: 1 to: 684
QDGDKLGRHGNKGVVVKILPQKDMFPLPDGTPVDIILNTHGVPRRMNIGQVLETHLWL
ASAGWSVDPEDPENAEVLKTLPLADLLEVPAGSLTATPVFDGASNEELAGLLANSRPNRDG
DVMVNADGKATLIDGRSGEPYPYPVSIGYMYMLKLHHLVDEKIHARSTGPYSMTQQPLG
GKAQFGGQRFGEVWAMQAYGAAAYTLQELL